Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 9/29/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0011-TP01 **Plant/Site Name:** Fort ~~Ritchie~~ Detrick **County:** Frederick

Location: POE @ WTP **Sample Source:** (Batch Prep - Blue) Street / Town or City

Collector/ID: Holt 6323.01 **Phone No.:** 4104467432

010	0011	0100011	01	9/28/2020	1030 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 1.2 **Total Cl:** 1.3

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ PFAS ☐ ~~THMs~~	☑ Field Blank ☐ Trip Blank	☐ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21000907001
Received: 09/29/2020 TEST
Organics 0100011TP01

E21000907002
Received: 09/29/2020
Organics

Remarks: 3 Samples and 2 Field Blanks received. AF 9/29/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000907001

Method: EPA 537.1 - PFAS

Date Received: 09/29/2020
Date Collected: 09/28/2020
Field ID: 0100011TP01FB
Submitted By: Holt
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/15/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000907002

Method: EPA 537.1 - PFAS

Date Received: 09/29/2020
Date Collected: 09/28/2020
Field ID:
Submitted By: Holt
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/15/2020

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Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: UK °C
on 9/30/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-0019-TP01 **Plant/Site Name:** Luke / Verso **County:** Allegany

Location: POE@ WTP **Sample Source:** (Bath color: Blue) Street / Town or City

Collector/ID: Holt 63230H **Phone No.:** 4104467432

001	0019	0001001 9	01	9/29/2020	1615 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.9 **Free Cl:** 1.0 **Total Cl:**

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ & TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21000908001
Received: 09/30/2020 EPA 537.1
Organics 0010019TP01

E21000908002
Received: 09/30/2020 EPA 537.1
Organics 0010019TP01

Remarks: 3 Samples and 2 Field Blanks were received. AF 9/30/20

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000908001

Method: EPA 537.1 - PFAS

Date Received: 09/30/2020
Date Collected: 09/30/2020
Field ID: 0010019TP01
Submitted By: Holt
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000908002

Method: EPA 537.1 - PFAS

Date Received: 09/30/2020
Date Collected: 09/30/2020
Field ID: 0010019TP01FB
Submitted By: Holt
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 10/19/2020

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Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1 °C

PFAS 9/30/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 012-0002-TP03 **Plant/Site Name:** Chapel Hill - Aberdeen Proving Grounds **County:** Harford

Location: WTP POE tap **Sample Source:** Building #250 (Street) APG (Town or City) Area North

Collector/ID: Lookingland GL 2710 **Phone No.:** 4104192709

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
12	0002	0120002	03	9/30/2020	0720 am/pm

Field Data: pH 7.6 **Free Cl:** 1.54 **Total Cl:** 1.55

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method [redacted] PFAS 537.1	☒ Field Blank ☐ Equipment Blank	☒ TRIZMA BLUE Batch	

E21000909001
Received: 09/30/2020 EPA 537.1
Organics 012-0002-TP(

E21000909002
Received: 09/30/2020 EPA 537.1
Organics 0120002TP03

Remarks: 3 Samples and 2 Field Blanks were received AF 9/30/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000909001

Method: EPA 537.1 - PFAS

Date Received: 09/30/2020
Date Collected: 09/30/2020
Field ID: 012-0002-TP03
Submitted By: Lookingland
Date Analyzed: 10/08/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
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Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000909002

Method: EPA 537.1 - PFAS

Date Received: 09/30/2020
Date Collected: 09/30/2020
Field ID: 0120002TP03FB
Submitted By: Lookingland
Date Analyzed: 10/08/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

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Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 10/1/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0002-TP01 **Plant/Site Name:** Freedom District Filter Plant **County:** Carroll

Location: Plant **Sample Source:** 5631 Oakland Rd (Street) Eldersburg (Town or City)

Collector/ID: Shawn Lowman 0076SL **Phone No.:** 410-294-7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0002	0060002	TP 01	10/1/2020	1105 am/pm

Field Data: pH 7.7 **Free Cl:** 1.8 **Total Cl:** 1.8

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Blue batch color	

E21000914001
Received: 10/01/2020 EPA 537.1
Organics 0060002TP01

E21000914002
Received: 10/01/2020 EPA 537.1
Organics FB0060002TF

Remarks:

Lab Supervisor: **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000914001

Method: EPA 537.1 - PFAS

Date Received: 10/01/2020
Date Collected: 10/01/2020
Field ID: 0060002TP01
Submitted By: Shawn Lowman
Date Analyzed: 10/08/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000914002

Method: EPA 537.1 - PFAS

Date Received: 10/01/2020
Date Collected: 10/01/2020
Field ID: FB0060002TP01
Submitted By: Shawn Lowman
Date Analyzed: 10/08/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
KB 10/1/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0017-TP01 **Plant/Site Name:** PERRY POINT **County:** CECIL

Location: POE TAP **Sample Source:** _____ (Street) PERRY POINT (Town or City)

Collector/ID: JOSEPH GAY 8841 V6 **Phone No.:** 4044673245

007	0017	007 0017	TP01	10/2/2020	7:40 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 06.8 **Free Cl:** 1.4 **Total Cl:** 1.4

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☑ Community
  - ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260~~ (VOCs) 5371	FIELD BLANK	TRIZMA	

E21000930001
Received: 10/02/2020 EPA 537.1
Organics 007-0017-TPC

E21000930002
Received: 10/02/2020 EPA 537.1
Organics FB007-0017-"

Remarks: Received 3 samples & 2 FB KB 10/2/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000930001

Method: EPA 537.1 - PFAS

Date Received: 10/02/2020
Date Collected: 10/02/2020
Field ID: 007-0017-TP01
Submitted By: Joseph Gay
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000930002

Method: EPA 537.1 - PFAS

Date Received: 10/02/2020
Date Collected: 10/02/2020
Field ID: FB007-0017-TP01
Submitted By: Joseph Gay
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
KB 10/2/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0018-TP01 **Plant/Site Name:** TOWN OF PERRYVILLE **County:** CECIL

Location: POE TAP **Sample Source:** Street PERRYVILLE Town or City

Collector/ID: JOSEPH GAY 88416 **Phone No.:** 4104467324

007	0018	2070018	TP01	10/2/2020	8:15 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.6 **Free Cl:** 0.2 **Total Cl:** 0.3

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☑ Community
  - ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ 537.1	☑ FIELD BLANK	☑ TRIZMA	

E21000930003
Received: 10/02/2020 EPA 537.1
Organics 007-0018-TPC

E21000930004
Received: 10/02/2020 EPA 537.1
Organics FB007-0018-T

Remarks: Received 3 samples & 2 FB KB 10/2/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000930003

Method: EPA 537.1 - PFAS

Date Received: 10/02/2020
Date Collected: 10/02/2020
Field ID: 007-0018-TP01
Submitted By: Joseph Gay
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000930004

Method: EPA 537.1 - PFAS

Date Received: 10/02/2020
Date Collected: 10/02/2020
Field ID: FB007-0018-TP01
Submitted By: Joseph Gay
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
KB 10/2/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0020-TP01 **Plant/Site Name:** PORT DEPOSIT **County:** CECIL

Location: POETAP **Sample Source:** PORT DEP (Street / Town or City)

Collector/ID: JOSEPH GAY 4104467324 **Phone No.:** 4104467324

007	0020	0070020	TP01	10/2/2020	8:45 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.5 **Free Cl:** 1.4 **Total Cl:** 1.7

Sample Type: ☒ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☒ Community ☐ Soil/Sediment ☒ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ 531.1	(V) FIELD BLANK	(V) TRIZMA	

E21000930005
Received: 10/02/2020 EPA 537.1
Organics 007-0020-TP(

E21000930006
Received: 10/02/2020 EPA 537.1
Organics FB007-0020-T

Remarks: Received 3 samples & 2 FB · KB 10/2/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000930005

Method: EPA 537.1 - PFAS

Date Received: 10/02/2020
Date Collected: 10/02/2020
Field ID: 007-0020-TP01
Submitted By: Joseph Gay
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000930006

Method: EPA 537.1 - PFAS

Date Received: 10/02/2020
Date Collected: 10/02/2020
Field ID: FB007-0020-TP01
Submitted By: Joseph Gay
Date Analyzed: 10/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/19/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
AF 10/6/20

Batch Color Blue (2)
10/15/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 002-0017TP02 **Plant/Site Name:** Glen Burnie - Broadneck - Stevenson Rd **County:** AA

Location: Stevenson RD WTP **Sample Source:** 7975 Quarterfield Rd, Glen Burnie (Street, Town or City)

Collector/ID: RLynch/1121RL **Phone No.:** 443-845-6115

002	0017	0020017	02	10/5/2020	9:45 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.7 **Free Cl:** 1.34 **Total Cl:** 1.34

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ TRIZMA Batch Color Blue	

E21000955001
Received: 10/06/2020 EPA 537.1
Organics 0020017TP02

E21000955002
Received: 10/06/2020 EPA 537.1
Organics FB0020017TF

Remarks: PFAs - 3 Samples & 2 FB rec'd AF 10/6/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

(2)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000955001

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: 0020017TP02
Submitted By: R Lynch
Date Analyzed: 10/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000955002

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: FB0020017TP02
Submitted By: R Lynch
Date Analyzed: 10/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: ____ °C AF 10/6/20

10/6/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 002-0017-TP08 **Plant/Site Name:** Glen Burnie - Broadneck **County:** AA

Location: Telegraph RD WTP **Sample Source:** 8075 Telegraph Rd, Severn (Street) Batch color BLUE (Town or City)

Collector/ID: RLynch/1121RL **Phone No.:** 443-845-6115

002	0017	0020017	08	10/5/2020	9:00 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.9 **Free Cl:** 1.31 **Total Cl:** 1.31

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ TRIZMA Batch Color Blue	

E21000954001
Received: 10/06/2020 EPA 537.1
Organics 0020017TP08

E21000954002
Received: 10/06/2020 EPA 537.1
Organics FB0020017TF

Remarks: PFAs - 3 Samples & 2 FB rec'd AF 10/6/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000954001

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: 0020017TP08
Submitted By: R Lynch
Date Analyzed: 10/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000954002

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: FB0020017TP08
Submitted By: R Lynch
Date Analyzed: 10/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
AF 10/6/20 (3)
10/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0005-TP01 **Plant/Site Name:** Brunswick **County:** Frederick

Location: POE@ WTP **Sample Source:** (Bath color: Blue) Street / Town or City

Collector ID: Holt 63235H **Phone No.:** 4104467432

0 1 0	0 0 0 5	0 1 0 0 0 0 5	0 1
County	System No.	PWSID	Plant No.

10/5/2020 Date Collected

1130 am/pm Time Collected

Field Data: pH 7.5 **Free Cl:** 0.9 **Total Cl:** 1.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ ~~THMs~~ PFAS	☑ ~~Field Blank~~ ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21000953001 Received: 10/06/2020 EPA 537.1 Organics 0100005TP01	E21000953002 Received: 10/06/2020 EPA 537.1 Organics FB0100005TP	

Remarks: PFAs - 3 samples & 2 FB rec'd AF 10/6/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

(3)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000953001

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: 0100005TP01
Submitted By: Holt
Date Analyzed: 10/16/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.59
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.14
Perfluorohexanoic acid (PFHxA)	1.0		2.22
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.29
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000953002

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: FB0100005TP01
Submitted By: Holt
Date Analyzed: 10/16/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
AF 10/6/20

(2) 10/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0015-TP02 **Plant/Site Name:** Frederick - Linganore Crk **County:** FRED

Location: POE@ Linganore Crk WTP **Sample Source:** (PFAS Batch Color: Yellow)
Street Town or City

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

0 1 0	0 0 1 5	0 0 0 0 1 5	0 2
County	System No.	PWSID	Plant No.

10/5/2020 Date Collected

1245 am/pm Time Collected

Field Data: pH 7.3 **Free Cl:** 1.5 **Total Cl:** 1.6

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method **524.2** (Volatiles) ☑ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	✓ Field Blank	✓ TRIZMA	

E21000950001
Received: 10/06/2020 EPA 524.2
Trace Organics 0100015TP02

E21000950002
Received: 10/06/2020 EPA 524.2
Trace Organics FB0100015TF

E21000950003
Received: 10/06/2020 EPA 524.2
Trace Organics TB0100015TF

E21000952001
Received: 10/06/2020 EPA 537.1
Organics 0100015TP02

E21000952002
Received: 10/06/2020 EPA 537.1
Organics FB0100015TF

Remarks: PFAs - 3 samples & 2 FB received AF 10/6/20

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000952001

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: 0100015TP02
Submitted By: Holt
Date Analyzed: 10/16/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.39
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.23
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.89
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000952002

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: FB0100015TP02
Submitted By: Holt
Date Analyzed: 10/16/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
AF 10/6/20

(1)

10/4/-w

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 022-0004-TP01 Plant/Site Name: PALK SALISBURY County: WICOMICO

Location: well house Sample Source: E Main ST (Street) SALISBURY (Town or City)

Collector/ID: Beatty 0976WB Phone No.: 4104463952

022	0004	0220004	01	10/5/2020	830 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 Free Cl: 0.73 Total Cl: 0.73

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☑ EPA Method **504.1** (EDB/DBCP)	☑ Field Blank	☑ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☑ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☑ EPA Method **525.2** (Pesticides)	☐ Field Blank	☑ HCL (6N) ☑ Sodium sulfite	
☑ EPA Method **531.2** (Carbamates)	☐ Field Blank	☑ Potassium Citrate monobasic ☑ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method **524.2** (Volatiles) ☑ VOCs ☐ THMs	☑ Field Blank ☑ Trip Blank	☐ 1:1 HCL ☑ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Blue	

E21000946001
Received: 10/06/2020 EPA 524.2
Trace Organics 022-0004-TPC

E21000946002
Received: 10/06/2020 EPA 524.2
Trace Organics FB022-0004-1

E21000946003
Received: 10/06/2020 EPA 524.2
Trace Organics TB022-0004-1

E21000948001
Received: 10/06/2020 EPA 504.1
Pesticides 022-0004-TPC

E21000948002
Received: 10/06/2020 EPA 504.1
Pesticides FB022-0004-1

E21000948003
Received: 10/06/2020 EPA 515.3
Pesticides 022-0004-TPC

E21000948004
Received: 10/06/2020 EPA 525.2
Pesticides 022-0004-TPC

E21000948005
Received: 10/06/2020 EPA 531.2
Pesticides 022-0004-TPC

E21000949001
Received: 10/06/2020 EPA 537.1
Organics 0220004TP01

E21000949002
Received: 10/06/2020 EPA 537.1
Organics FB0220004TP

Remarks: PFAs - 3 samples & 2 FB received AF 10/6/20

Lab Supervisor: _____ Date Reported: ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000949001

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: 0220004TP01
Submitted By: Beatty
Date Analyzed: 10/16/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		5.87
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.72
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.11
Perfluorohexanoic acid (PFHxA)	1.0		4.38
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		7.19
Perfluorooctanoic acid (PFOA)	1.0		7.53
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000949002

Method: EPA 537.1 - PFAS

Date Received: 10/06/2020
Date Collected: 10/05/2020
Field ID: FB0220004TP01
Submitted By: Beatty
Date Analyzed: 10/16/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH – Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: ___ °C
JY. 10/7/20

10/15 W (3)

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 022-0004-TP02 Plant/Site Name: Paleo Salisbury County: Wicomico

Location: lab sink Sample Source: Naylor Mill Rd (Street) Salisbury (Town or City)

Collector/ID: Beatty 0976WB Phone No.: 410 446 3952

022	0004	0220004	02	10/6/2020	830 am/pm
County	System No.	PWSID	Plant No	Date Collected	Time Collected

Field Data: pH 7.35 Free Cl: 0.81 Total Cl: 0.81

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☑ EPA Method 504.1 (EDB/DBCP)	☑ Field Blank	☑ Sodium thiosulfate	
☐ EPA Method 508 (Aroclors (SCAN only) & Toxaphene)	☐ Field Blank	☐ Sodium thiosulfate	
☑ EPA Method 515.3 (Herbicides)	☐ Field Blank	☑ Sodium thiosulfate	
☑ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☑ EPA Method 531.2 (Carbamates)	☐ Field Blank	☑ Potassium Citrate monobasic ☑ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method 524.2 (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Blue	

E21000973001
Received: 10/07/2020 EPA 504.1
Pesticides 0220004TP02

E21000973002
Received: 10/07/2020 EPA 504.1
Pesticides FB0220004TF

E21000973003
Received: 10/07/2020 EPA 515.3
Pesticides 0220004TP02

E21000973004
Received: 10/07/2020 EPA 525.2
Pesticides 0220004TP02

E21000973005
Received: 10/07/2020 EPA 531.2
Pesticides 0220004TP02

E21000973006
Received: 10/07/2020 EPA 537.1
Organics 0220004TP02

E21000973007
Received: 10/07/2020 EPA 537.1
Organics FB0220004TF

Remarks:

Lab Supervisor: Date Reported: ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000973006

Method: EPA 537.1 - PFAS

Date Received: 10/07/2020
Date Collected: 10/06/2020
Field ID: 0220004TP02
Submitted By: Beatty
Date Analyzed: 10/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.04
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.25
Perfluorooctanoic acid (PFOA)	1.0		1.12
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000973007

Method: EPA 537.1 - PFAS

Date Received: 10/07/2020
Date Collected: 10/06/2020
Field ID: FB0220004TP02
Submitted By: Beatty
Date Analyzed: 10/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 10/7/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0003-TP01 **Plant/Site Name:** CITY OF ROCKVILLE **County:** MONT

Location: POE TAP **Sample Source:** _____ (Street) ROCKVILLE (Town or City)

Collector/ID: JOSEPH GAY 884/ JG **Phone No.:** 4104467324

015	003	0150003	TP01	10/7/20	7:53 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.3 **Free Cl:** 1.7 **Total Cl:** 2.2

Sample Type: ☒ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☒ Community ☐ Soil/Sediment ☒ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21000978001
Received: 10/07/2020 EPA 537.1
Organics 0150003TP01

E21000978002
Received: 10/07/2020 EPA 537.1
Organics FB0150003TF

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000978001

Method: EPA 537.1 - PFAS

Date Received: 10/07/2020
Date Collected: 10/07/2020
Field ID: 0150003TP01
Submitted By: Joseph Gay
Date Analyzed: 10/21/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.33
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.74
Perfluorohexanoic acid (PFHxA)	1.0		3.65
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.35
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21000978002

Method: EPA 537.1 - PFAS

Date Received: 10/07/2020
Date Collected: 10/07/2020
Field ID: FB0150003TP01
Submitted By: Joseph Gay
Date Analyzed:

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		Rejected
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Rejected
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		Rejected
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Rejected
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected
Perfluorobutanesulfonic acid (PFBS)	1.0		Rejected
Perfluorodecanoic acid (PFDA)	1.0		Rejected
Perfluorododecanoic acid (PFDoA)	2.0		Rejected
Perfluoroheptanoic acid (PFHpA)	2.0		Rejected
Perfluorohexanesulfonic acid (PFHxS)	1.0		Rejected
Perfluorohexanoic acid (PFHxA)	1.0		Rejected
Perfluorononanoic acid (PFNA)	2.0		Rejected
Perfluorooctanesulfonic acid (PFOS)	2.0		Rejected
Perfluorooctanoic acid (PFOA)	1.0		Rejected
Perfluorotetradecanoic acid (PFTDA)	1.0		Rejected
Perfluorotridecanoic acid (PFTrDA)	2.0		Rejected
Perfluoroundecanoic acid (PFUnDA)	1.0		Rejected

Comments:

Approved by: Sadia Nuneza

Approval date: 10/27/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.10 °C
10/15/20

(4) 10/20/20.

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0011TP035 **Plant/Site Name:** TOWN OF ELKTON **County:** CECIL

Location: WELLS **Sample Source:** _____ (Street) ELKTON (Town or City)

Collector ID: JOSEPH GAY 884/16 **Phone No.:** 4104467324

007	0011	007 0011	TP 035	10/15/2020	8:xx am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 0710 **Free Cl:** 1.1 **Total Cl:** 1.4

Sample Type: ☒ Drinking water ☐ Private ☒ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☒ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~**8260** (VOCs)~~ 537.1	FIELD BLNK	TRIZMA	

E21001039001
Received: 10/15/2020 EPA 537.1
Organics 007-0011TP035

E21001039002
Received: 10/15/2020 EPA 537.1
Organics FB0070011TP03

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039001 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: 007-0011TP035 Submitted By: Gay Date Analyzed: 10/21/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.65
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.72
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039002 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: FB0070011TP035 Submitted By: Gay Date Analyzed: 10/29/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
Sm 10/15/20
(S) 10/16/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0011-TP031R Plant/Site Name: TOWN OF ELKTON County: CECIL

Location: WELL #R Sample Source: _____ Street ELKTON Town or City

Collector/ID: JOSEPH GAY 8841 10 Phone No.: 4109467324

007	0011	0070011	TP	031R	10/15/2020	8:10 am/pm
County	System No.	PWSID	Plant No.		Date Collected	Time Collected

Field Data: pH 07.0 Free CI: — Total CI: —

Sample Type: ☒ Drinking water ☐ Private ☒ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☒ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ 537.1	FIELD BLANK	TRIZMA	

E21001039003
Received: 10/15/2020 EPA 8260
Organics 0070011TP031R

E21001039004
Received: 10/15/2020 EPA 537.1
Organics FB0070011TP03

Remarks: FB not tested as FS is ND for all Sm 10/16/20

Date Reported: ___/___/___

Lab Supervisor: _____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039003 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: 0070011TP031R Submitted By: Gay Date Analyzed: 10/21/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039004 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: FB0070011TP031F Submitted By: Gay Date Analyzed:

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		Rejected
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Rejected
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		Rejected
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Rejected
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected
Perfluorobutanesulfonic acid (PFBS)	1.0		Rejected
Perfluorodecanoic acid (PFDA)	1.0		Rejected
Perfluorododecanoic acid (PFDoA)	2.0		Rejected
Perfluoroheptanoic acid (PFHpA)	2.0		Rejected
Perfluorohexanesulfonic acid (PFHxS)	1.0		Rejected
Perfluorohexanoic acid (PFHxA)	1.0		Rejected
Perfluorononanoic acid (PFNA)	2.0		Rejected
Perfluorooctanesulfonic acid (PFOS)	2.0		Rejected
Perfluorooctanoic acid (PFOA)	1.0		Rejected
Perfluorotetradecanoic acid (PFTDA)	1.0		Rejected
Perfluorotridecanoic acid (PFTrDA)	2.0		Rejected
Perfluoroundecanoic acid (PFUnDA)	1.0		Rejected

Comments: FB not tested as FS was ND fm 11/5/20

Approved by: [signature] Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
Rm 10/15/20

(6) 10/15/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0011-TP032R **Plant/Site Name:** TOWN OF ELKTON **County:** CECIL

Location: WELL 2R **Sample Source:** _____ (Street) ELKTON (Town or City)

Collector/ID: JOSEPH GAY 8841 JG **Phone No.:** 4044673294

007	0011	0070011	TP 032R	10/15/2020	8:15 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.0 **Free Cl:** 0.8 **Total Cl:** 0.8

Sample Type:
- ☐ ~~Drinking water~~
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ 537.1	FIELD BLANK	TRIZMA	

E21001039005
Received: 10/15/2020 EPA 537.1
Organics 0070011TP032R

E21001039006
Received: 10/15/2020 EPA 537.1
Organics FB0070011TP03

Remarks: FB not tested as FS is ND for all Rm 10/16/20.

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039005 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: 0070011TP032R Submitted By: Gay Date Analyzed: 10/21/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039006 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: FB0070011TP032I Submitted By: Gay Date Analyzed:

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		Rejected
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Rejected
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		Rejected
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Rejected
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected
Perfluorobutanesulfonic acid (PFBS)	1.0		Rejected
Perfluorodecanoic acid (PFDA)	1.0		Rejected
Perfluorododecanoic acid (PFDoA)	2.0		Rejected
Perfluoroheptanoic acid (PFHpA)	2.0		Rejected
Perfluorohexanesulfonic acid (PFHxS)	1.0		Rejected
Perfluorohexanoic acid (PFHxA)	1.0		Rejected
Perfluorononanoic acid (PFNA)	2.0		Rejected
Perfluorooctanesulfonic acid (PFOS)	2.0		Rejected
Perfluorooctanoic acid (PFOA)	1.0		Rejected
Perfluorotetradecanoic acid (PFTDA)	1.0		Rejected
Perfluorotridecanoic acid (PFTrDA)	2.0		Rejected
Perfluoroundecanoic acid (PFUnDA)	1.0		Rejected

Comments: FB not tested as FS was non-detect /Sm 11/5/20

Approved by: Sadia Nuseen Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C

12/15/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0011-TP01 **Plant/Site Name:** TOWN OF ELKTON **County:** CECIL

Location: BIG ELK **Sample Source:** _____ (Street) ELKTON (Town or City)

Collector/ID: JOSEPH GAY 884/16 **Phone No.:** 410 447-3247

007	0011	0070011	TP01	10/15/2020	8:30 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.6 **Total Cl:** 1.7

Sample Type:
- ☐ ~~Drinking water~~
- ☐ Private
- ☐ ~~Community~~
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☐ ~~Water Treatment Plant POE~~
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclor's (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001039007
Received: 10/15/2020 EPA 537.1
Organics 0070011TP01

E21001039008
Received: 10/15/2020 EPA 537.1
Organics FB0070011TP01

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039007 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: 0070011TP01 Submitted By: Gay Date Analyzed: 10/29/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.84
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.59
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		5.13
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		6.37
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munawar Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039008 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: FB0070011TP01 Submitted By: Gay Date Analyzed: 10/29/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
Rm 10/15/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0011-TP02 **Plant/Site Name:** TOWN OF ELKTON **County:** CECIL

Location: WELL 3 **Sample Source:** _____ (Street) ELKTON (Town or City)

Collector/ID: JOSEPH GAY 884 JG **Phone No.:** 4104476329

007	0011	007 0011	TP 02	10/15/2020	8:45 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.5 **Free Cl:** 1.0 **Total Cl:** 1.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001039009
Received: 10/15/2020 EPA 537.1
Organics 0070011TP02

E21001039010
Received: 10/15/2020 EPA 537.1
Organics FB0070011TP02

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039009 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: 0070011TP02 Submitted By: Gay Date Analyzed: 10/29/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.80
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		6.22
Perfluorohexanesulfonic acid (PFHxS)	1.0		4.46
Perfluorohexanoic acid (PFHxA)	1.0		9.70
Perfluorononanoic acid (PFNA)	2.0		2.66
Perfluorooctanesulfonic acid (PFOS)	2.0		6.88
Perfluorooctanoic acid (PFOA)	1.0		22.90
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munsaw Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001039010 Method: EPA 537.1 - PFAS

Date Received: 10/15/2020 Date Collected: 10/15/2020
Field ID: FB0070011TP02 Submitted By: Gay Date Analyzed: 10/29/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeca Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

PFAS

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: N/A °C
No Temp Blank Rec'd on Ice
AF 10/15/20

(2)
10/20/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 030-0002-TP02 **Plant/Site Name:** MONTEBELLO **County:** BALTO CITY

Location: F.P 1+2 (2 locations) **Sample Source:** 3901 HILLEN RD (Street) (Town or City)

Collector/ID: OSMUSSEN/2302-12-577 **Phone No.:** 4435204918

030	0002		02	10/15/20	0900 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.4 **Free Cl:** 0.8 **Total Cl:** 0.8

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1		☑ TRIS BASE TRIS HCL	INCL 2 F.B. 3 SAMPLES

E21001038001
Received: 10/15/2020 EPA 537.1
Organics 0300002TP02

E21001038002
Received: 10/15/2020 EPA 537.1
Organics FB0300002TP02

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001038001

Method: EPA 537.1 - PFAS

Date Received: 10/15/2020
Field ID: 0300002TP02

Date Collected: 10/15/2020
Submitted By: Rasmussen

Date Analyzed: 10/21/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.63
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.58
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.98
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001038002

Method: EPA 537.1 - PFAS

Date Received: 10/15/2020
Field ID: FB0300002TP02

Date Collected: 10/15/2020
Submitted By: Rasmussen

Date Analyzed: 10/28/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneez

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

PFAS

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: N/A °C.
No Temp Blank. Recd on ice
AF 10/15/20

(3)
10/20/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 030 0002-TP01 **Plant/Site Name:** ASHBURTON **County:** BALTO CITY

Location: F.P. - Lab Sink "TREATED" **Sample Source:** 3001 DRUID PARK DR (Street) (Town or City)

Collector/ID: RASMUSSEN/2302-12-517 **Phone No.:** 4435204918

030	0002		01	10/15/20	1030 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 0.7 **Total Cl:** 0.8

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	~~INCL 2 F.B 3 SAMPLES~~
☑ EPA Method ~~8260 (VOCs)~~ 537.1		☑ TRIS Base ☑ TRIS HCL	INCL 2 F.B 3 SAMPLES

E21001038003
Received: 10/15/2020 EPA 537.1
Organics 0300002TP01

E21001038004
Received: 10/15/2020 EPA 537.1
Organics FB0300002TP01

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001038003

Method: EPA 537.1 - PFAS

Date Received: 10/15/2020
Field ID: 0300002TP01

Date Collected: 10/15/2020
Submitted By: Rasmussen

Date Analyzed: 10/21/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.50
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.02
Perfluorohexanoic acid (PFHxA)	1.0		1.87
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.66
Perfluorooctanoic acid (PFOA)	1.0		2.27
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001038004

Method: EPA 537.1 - PFAS

Date Received: 10/15/2020
Field ID: FB0300002TP01

Date Collected: 10/15/2020
Submitted By: Rasmussen

Date Analyzed: 10/28/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: NA °C 10/20/20 RK

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0010-NP01 **Plant/Site Name:** Hagerstown **County:** WASH

Location: POE @ WTP **Sample Source:** Batch color(S): Blue-FB, Yellow-Sample (Street / Town or City)

Collector/ID: Holt 6323 JH **Phone No.:** 4104467432

021	0010	02100010	01	10/19/2020	1:00 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 1.3 **Total Cl:** 2.6

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ____ ☐ Other ____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other ____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001088001 Received: 10/20/2020 EPA 537.1 Organics 021-0010-TP01	E2100116500l FB.	

Remarks: 2FB recieved but ~~4~~ fb registered in Starlims at a later day RK 11/20

Lab Supervisor: ____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001088001 Method: EPA 537.1 - PFAS

Date Received: 10/20/2020 Date Collected: 10/19/2020
Field ID: 021-0010-TP01 Submitted By: Holt Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

pH measured 2.0

Approved by: Sadia Nuneen Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001165001 Method: EPA 537.1 - PFAS

Date Received: 10/20/2020 Date Collected: 10/19/2020
Field ID: FB0210010TP01 Submitted By: Holt Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: NA °C
10120120 RH

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0017-TP01 **Plant/Site Name:** Sharpsburg **County:** Wash

Location: POE WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

021	0017	021 0017	01	10/19/2020	1300 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 0.6 **Total Cl:** 0.8

Sample Type: ☑ Drinking water ☐ Private ☐ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ ~~SDWA~~ ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ THMs PFAS	☑ Field Blank ☐ Trip Blank	☐ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001088002
Received: 10/20/2020 EPA 537.1
Organics 021-0017-TP01

E21001165202
FB

Remarks: FB ~~not~~ registered (received 2 FB) at a later date Sm 10/20/20.

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001088002 Method: EPA 537.1 - PFAS

Date Received: 10/20/2020 Date Collected: 10/19/2020
Field ID: 021-0017-TP01 Submitted By: Holt Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.01
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.27
Perfluorohexanoic acid (PFHxA)	1.0		1.98
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.41
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mineca Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001165002

Method: EPA 537.1 - PFAS

Date Received: 10/20/2020
Field ID: FB0210017TP01

Date Collected: 10/19/2020
Submitted By: Holt

Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Muneer

Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3° °C
AT 10/19/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 012-0012-01 **Plant/Site Name:** City of Havre de Grace **County:** Harford

Location: WTP POE tap **Sample Source:** 415 St. John St. (Street) Havre de Grace (Town or City)

Collector/ID: Lookingland GL7310 **Phone No.:** 410 409 2709

12	0012	0120012	01	10/19/2020	1115 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.5 **Free Cl:** 2.00 **Total Cl:** 2.00

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs AT 10/19	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☒ Field Blank	☒ TRIZMA (yellow batch)	

E21001070005
Received: 10/19/2020 EPA 537.1
012-0012-01

E21001070006
Received: 10/19/2020 EPA 537.1
FB-012-0012-01

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001070005 Method: EPA 537.1 - PFAS

Date Received: 10/19/2020 Date Collected: 10/19/2020
Field ID: 012-0012-01 Submitted By: Lookingland Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.10
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.23
Perfluorohexanoic acid (PFHxA)	1.0		3.00
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.28
Perfluorooctanoic acid (PFOA)	1.0		2.66
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001070006 Method: EPA 537.1 - PFAS

Date Received: 10/19/2020 Date Collected: 10/19/2020
Field ID: FB-012-0012-01 Submitted By: Lookingland Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mannan Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3° AT 10/1

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 012-0003-01 **Plant/Site Name:** MD American Water Company **County:** Harford

Location: Winters Run Final tap **Sample Source:** 1004 W. Baltimore Pike (Street) Bel Air (Town or City)

Collector/ID: Lockingland GL 7310 **Phone No.:** 4104192709

12	0003	0120003	01	10/19/2020	0830 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.0 **Free Cl:** 2.01 **Total Cl:** 2.01

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Product ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ PFAS 537.1 1.1	☒ Field Blank	☒ TRIZMA (yellow batch)	

E21001070001
Received: 10/19/2020 EPA 537.1
012-0003-01

E21001070002
Received: 10/19/2020 EPA 537.1
FB-012-0003-01

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001070001 Method: EPA 537.1 - PFAS

Date Received: 10/19/2020 Date Collected: 10/19/2020
Field ID: 012-0003-01 Submitted By: Lookingland Date Analyzed: 10/29/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.34
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.49
Perfluorohexanoic acid (PFHxA)	1.0		1.76
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.65
Perfluorooctanoic acid (PFOA)	1.0		2.22
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001070002 Method: EPA 537.1 - PFAS

Date Received: 10/19/2020 Date Collected: 10/19/2020
Field ID: FB-012-0003-01 Submitted By: Lookingland Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munecca Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3° °C AT 10/19/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 012-0003-02 **Plant/Site Name:** MD American Water Company **County:** Harford

Location: Bynum Run well Finish tap **Sample Source:** 705 Churchville Rd (Street) Bel Air (Town or City)

Collector/ID: Lookingland GL7310 **Phone No.:** 410 419 2709

12	0003	0120003	02	10/19/2020	0900 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 0.74 **Total Cl:** 0.74

Sample Type: ☒ Drinking water ☐ Private ☒ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☒ Water Treatment Plant POE ☐ Oil ☐ Solid ☐ Other

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ PFAS 537.1 IM	☒ Field Blank 10/19/20	☒ TRIZMA (yellow batch)	

E21001070003
Received: 10/19/2020 EPA 537.1
012-0003-02

E21001070004
Received: 10/19/2020 EPA 537.1
FB-012-0003-02

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001070003 Method: EPA 537.1 - PFAS

Date Received: 10/19/2020 Date Collected: 10/19/2020
Field ID: 012-0003-02 Submitted By: Lookingland Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		6.76
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.79
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.63
Perfluorohexanoic acid (PFHxA)	1.0		7.32
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		8.00
Perfluorooctanoic acid (PFOA)	1.0		8.22
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munawar Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001070004 Method: EPA 537.1 - PFAS

Date Received: 10/19/2020 Date Collected: 10/19/2020
Field ID: FB-012-0003-02 Submitted By: Lookingland Date Analyzed: 10/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva Approval date: 11/05/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP06 **Plant/Site Name:** Westminster Well 8 **County:** Carroll

Location: Plant **Sample Source:** Nate Wagner Rd (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0015	0060015	TP 06	10 / 20 /2020	840 am/pm

Field Data: pH 7.9 **Free Cl:** 2.0 **Total Cl:** 2.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Yellow	

E21001118001
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP06

E21001118002
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TP(

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118001 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: 006-0015-TP06 Submitted By: Shawn Lowman Date Analyzed: 10/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		11.32
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		11.96
Perfluorohexanesulfonic acid (PFHxS)	1.0		123.18
Perfluorohexanoic acid (PFHxA)	1.0		25.95
Perfluorononanoic acid (PFNA)	2.0		10.16
Perfluorooctanesulfonic acid (PFOS)	2.0		136.03
Perfluorooctanoic acid (PFOA)	1.0		18.93
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Final Report
Sample require dilution for compounds that measured greater than 100ppt

Approved by: Sadia Muneer Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118002 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: FB006-0015-TP06 Submitted By: Shawn Lowman Date Analyzed: 10/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureem Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP06 **Plant/Site Name:** Westminster Well 8 **County:** Carroll

Location: Plant Raw Tap **Sample Source:** Nate Wagner Rd (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0015	0060015	TP 06	10 / 20 /2020	850 am/pm

Field Data: pH 6.2 **Free Cl:** 0.0 **Total Cl:** 0.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☑ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Yellow	

E21001118003
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP06

E21001118004
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TP(

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118003 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: 006-0015-TP06 Submitted By: Shawn Lowman Date Analyzed: 10/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		11.85
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		12.30
Perfluorohexanesulfonic acid (PFHxS)	1.0		84.94
Perfluorohexanoic acid (PFHxA)	1.0		32.59
Perfluorononanoic acid (PFNA)	2.0		10.87
Perfluorooctanesulfonic acid (PFOS)	2.0		172.92
Perfluorooctanoic acid (PFOA)	1.0		20.54
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Final Report
Sample require dilution for compounds that measured greater than 100ppt

Approved by: Sadia Munecan Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118004 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: FB006-0015-TP06 Submitted By: Shawn Lowman Date Analyzed: 10/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sandra Mcneem Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP07 **Plant/Site Name:** Westminster Wells 9, 10 **County:** Carroll

Location: Plant **Sample Source:** Pond View Ct (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0015	0060015	TP 07	10 / 20 /20 20	1150 am/pm

Field Data: pH 6.8 **Free Cl:** 2.0 **Total Cl:** 2.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Green	

E21001118013
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP07

E21001118014
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TP

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118013

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: 006-0015-TP07

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/27/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		6.49
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.61
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.00
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munees

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118014 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: FB006-0015-TP07 Submitted By: Shawn Lowman Date Analyzed: 10/27/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP05 **Plant/Site Name:** Westminster Well 5 **County:** Carroll

Location: Plant **Sample Source:** Krider's Church Rd (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0015	0060015	TP 05	10 / 20 /2020	1215 am/pm

Field Data: pH 7.5 **Free Cl:** 2.1 **Total Cl:** 2.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☐ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma	

E21001118015
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP05

E21001118016
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TPC

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118015

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: 006-0015-TP05

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/27/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.18
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.79
Perfluorohexanoic acid (PFHxA)	1.0		1.79
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		4.18
Perfluorooctanoic acid (PFOA)	1.0		6.14
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneez

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118016

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: FB006-0015-TP05

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/27/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP03 **Plant/Site Name:** Westminster Well 4 **County:** Carroll

Location: Plant **Sample Source:** Business Pkway (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 0076 SL **Phone No.:** 4102947884

006	0015	0060015	TP 03	10 / 20 /2020	1240 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.9 **Total Cl:** 1.9

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Green	

E21001118017
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP03

E21001118018
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TPC

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118017

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: 006-0015-TP03

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/27/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		5.77
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.27
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.45
Perfluorohexanoic acid (PFHxA)	1.0		3.71
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.98
Perfluorooctanoic acid (PFOA)	1.0		3.93
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118018

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: FB006-0015-TP03

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/27/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP02 **Plant/Site Name:** Westminster Well 3 **County:** Carroll

Location: Plant **Sample Source:** Old Meadow Branch (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0015	0060015	TP 02	10 /20 /2020	1:05 am/pm

Field Data: pH 6.6 **Free Cl:** 1.6 **Total Cl:** 1.6

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Green	

E21001118019
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP02

E21001118020
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TPC

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118019

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: 006-0015-TP02

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/28/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118020

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: FB006-0015-TP02

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/28/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP01 **Plant/Site Name:** Westminster Cranberry WTP **County:** Carroll

Location: Plant **Sample Source:** Lucabaugh Mill Rd (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0015	0060015	TP 01	10 / 20 /2020	1:40 am/pm

Field Data: pH 8.0 **Free Cl:** 2.2 **Total Cl:** 2.3

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Yellow	

E21001118021
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP01

E21001118022
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TPC

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118021

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: 006-0015-TP01

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/28/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.03
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.12
Perfluorohexanoic acid (PFHxA)	1.0		1.81
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.86
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118022

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: FB006-0015-TP01

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/28/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 10/29/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP10 **Plant/Site Name:** Westminster Gesell **County:** Carroll

Location: Plant **Sample Source:** 706 Agricultural Center Dr. (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

006	0015	0060015	TP 10	10/20/2020	925 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.7 **Free Cl:** 1.8 **Total Cl:** 1.8

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Yellow	

E21001118005
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP10

E21001118006
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TP1

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118005 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: 006-0015-TP10 Submitted By: Shawn Lowman Date Analyzed: 10/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.50
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.28
Perfluorohexanoic acid (PFHxA)	1.0		2.88
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		3.53
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sandra Nuneem Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
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Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118006 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: FB006-0015-TP10 Submitted By: Shawn Lowman Date Analyzed: 10/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadhna Nuneem Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP04 **Plant/Site Name:** Westminster Well 6 **County:** Carroll

Location: Plant **Sample Source:** Center St. (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

006	0015	0060015	TP 04	10/20/2020	955 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.6 **Total Cl:** 1.6

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

	Test Requested	Field & Trip Blank	Preservative Used	Comment
☐	EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐	EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐	EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐	EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐	EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐	EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐	EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐	EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑	EPA Method ~~**8260 (VOCs)**~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Yellow	

E21001118007
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP04

E21001118008
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TP

State of Maryland
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Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118007

Method: EPA 537.1 - PFAS

Date Received: 10/21/2020
Field ID: 006-0015-TP04

Date Collected: 10/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 10/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.91
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		8.20
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.97
Perfluorohexanoic acid (PFHxA)	1.0		19.98
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		7.29
Perfluorooctanoic acid (PFOA)	1.0		8.16
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadhna Nuneem

Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118008 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: FB006-0015-TP04 Submitted By: Shawn Lowman Date Analyzed: 10/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sandra Nunnam Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP08 **Plant/Site Name:** Westminster Well 7 **County:** Carroll

Location: Plant **Sample Source:** Windsor Dr. (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 0076SL **Phone No.:** 410 294 7884

006	0015	0060015	TP 08	10/20/2020	1045 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.7 **Free Cl:** 1.7 **Total Cl:** 1.7

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~**8260** (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma yellow	

E21001118009
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP08

E21001118010
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TPC

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118009 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: 006-0015-TP08 Submitted By: Shawn Lowman Date Analyzed: 10/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.94
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.24
Perfluorooctanoic acid (PFOA)	1.0		2.00
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadra Nuneem Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118010 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: FB006-0015-TP08 Submitted By: Shawn Lowman Date Analyzed: 10/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sedrick Mureem Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 10/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0015-TP09 **Plant/Site Name:** Westminster Roops Mill **County:** Carroll

Location: Plant **Sample Source:** Rockland (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

006	0015	00600615	TP 09	10/20/2020	1120 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.9 **Free Cl:** 3.4 **Total Cl:** 3.4

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~**8260** (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blank	☑ Trizma Yellow	

E21001118011
Received: 10/21/2020 EPA 537.1
Organics 006-0015-TP09

E21001118012
Received: 10/21/2020 EPA 537.1
Organics FB006-0015-TPC

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118011 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: 006-0015-TP09 Submitted By: Shawn Lowman Date Analyzed: 10/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.10
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sandra Nunnum Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001118012 Method: EPA 537.1 - PFAS

Date Received: 10/21/2020 Date Collected: 10/20/2020
Field ID: FB006-0015-TP09 Submitted By: Shawn Lowman Date Analyzed: 10/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 10/27/20

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 11/4/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP12 **Plant/Site Name:** Hampstead WTP 15 **County:** Carroll

Location: Plant **Sample Source:** Shiloh Road (Street) Hampstead (Town or City)

Collector/ID: Shawn Lawman 91935L **Phone No.:** 410 794 7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0003	0060003	TP 12	11/4/2020	820 am/pm

Field Data: pH 7.8 **Free Cl:** 1.4 **Total Cl:** 1.4

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001229001
Received: 11/04/2020 EPA 537.1
Organics 006-0003-TP12

E21001229002
Received: 11/04/2020 EPA 537.1
Organics FB006-0003-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229001 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: 006-0003-TP12 Submitted By: Shawn Lowman Date Analyzed: 11/10/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.25
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.90
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.52
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229002 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: FB006-0003-TP12 Submitted By: Shawn Lowman Date Analyzed: 11/11/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 11/4/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP13 **Plant/Site Name:** Humpstead well 32 **County:** Carroll

Location: Plant **Sample Source:** Wellsley Court (Street) Humpstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0003	0060003	TP 13	11/4/2020	840 am/pm

Field Data: pH 6.7 **Free Cl:** 1.4 **Total Cl:** 1.4

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001229003
Received: 11/04/2020 EPA 537.1
Organics 006-0003-TP13

E21001229004
Received: 11/04/2020 EPA 537.1
Organics FB006-0003-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229003 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: 006-0003-TP13 Submitted By: Shawn Lowman Date Analyzed: 11/10/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.73
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		3.73
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		4.26
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munecan Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229004 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: FB006-0003-TP13 Submitted By: Shawn Lowman Date Analyzed: 11/11/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munees Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 11/4/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP02 **Plant/Site Name:** Hampstead WTP 5 **County:** Carroll

Location: Plant **Sample Source:** 1555 Main St (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

006	0003	0060003	TP 02	11/14/2020	905 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.2 **Free Cl:** 1.1 **Total Cl:** 1.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001229005
Received: 11/04/2020 EPA 537.1
Organics 006-0003-TP02

E21001229006
Received: 11/04/2020 EPA 537.1
Organics FB006-0003-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229005 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: 006-0003-TP02 Submitted By: Shawn Lowman Date Analyzed: 11/10/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.13
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.97
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.88
Perfluorohexanoic acid (PFHxA)	1.0		4.86
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		5.89
Perfluorooctanoic acid (PFOA)	1.0		7.15
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229006 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: FB006-0003-TP0[illegible] Submitted By: Shawn Lowman Date Analyzed: 11/11/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 11/4/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP05 **Plant/Site Name:** Hampstead WTP 8 **County:** Carroll

Location: Plant **Sample Source:** 4009 Greenmount Church Rd (Street) Hampstead (Town or City)

Collector/ID: Shawn Lawmon 00765L **Phone No.:** 4102947884

006	0003	00600003	05	11/4/2020	925 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.2 **Free Cl:** 0.4 **Total Cl:** 0.4

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001229007
Received: 11/04/2020 EPA 537.1
Organics 006-0003-TP05

E21001229008
Received: 11/04/2020 EPA 537.1
Organics FB006-0003-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229007 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: 006-0003-TP05 Submitted By: Shawn Lowman Date Analyzed: 11/10/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.39
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.87
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.65
Perfluorohexanoic acid (PFHxA)	1.0		10.50
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.62
Perfluorooctanoic acid (PFOA)	1.0		8.77
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229008 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: FB006-0003-TP0[illegible] Submitted By: Shawn Lowman Date Analyzed: 11/11/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KS 11/4/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP08 **Plant/Site Name:** Hampstead WTP 11 **County:** Carroll

Location: Plant **Sample Source:** 4119 Creswell Terrace (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

006	0003	00600003	TP 08	11/4/2020	955 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.0 **Free Cl:** 1.1 **Total Cl:** 1.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma green	

E21001229009
Received: 11/04/2020 EPA 537.1
Organics 006-0003-TP0[illegible]

E21001229010
Received: 11/04/2020 EPA 537.1
Organics FB006-0003-TI

Remarks: Well 24 pumping at time of sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229009 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: 006-0003-TP08 Submitted By: Shawn Lowman Date Analyzed: 11/10/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		6.32
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		12.30
Perfluorohexanesulfonic acid (PFHxS)	1.0		52.40
Perfluorohexanoic acid (PFHxA)	1.0		19.50
Perfluorononanoic acid (PFNA)	2.0		3.08
Perfluorooctanesulfonic acid (PFOS)	2.0		235.00
Perfluorooctanoic acid (PFOA)	1.0		14.30
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munees Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001229010 Method: EPA 537.1 - PFAS

Date Received: 11/04/2020 Date Collected: 11/04/2020
Field ID: FB006-0003-TP0[illegible] Submitted By: Shawn Lowman Date Analyzed: 11/14/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
RH 1115120

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0016-TP01 **Plant/Site Name:** TOWN OF NORTH EAST **County:** CECIL

Location: ROLLING MILL **Sample Source:** 1 ROLLING MILL CN (Street) NORTHEAST (Town or City)

Collector/ID: JOSEPH GAY 884/ JG **Phone No.:** 4104467324

007	0016	0070016	TP01	11/5/2020	7:55 (am/pm)
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 07.0 **Free Cl:** 0.7 **Total Cl:** 0.9

Sample Type: ☐ ~~Drinking water~~ ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☐ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001247001
Received: 11/05/2020 EPA 537.1
Organics 007-0016-TP0

E21001247002
Received: 11/05/2020 EPA 537.1
Organics 007-0016-TP0

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001247001 Method: EPA 537.1 - PFAS

Date Received: 11/05/2020 Date Collected: 11/05/2020
Field ID: 007-0016-TP01 Submitted By: Gay Date Analyzed: 11/10/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.84
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.39
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001247002 Method: EPA 537.1 - PFAS

Date Received: 11/05/2020 Date Collected: 11/05/2020
Field ID: 007-0016-TP01FB Submitted By: Gay Date Analyzed: 11/14/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
RH 11/5/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0016-TP02 **Plant/Site Name:** TOWN OF NORTH EAST **County:** CECIL

Location: LESLIE **Sample Source:** 39 N (Street) LESLIE NORTH EAST (Town or City)

Collector/ID: JOSEPH GAY 8841 16 **Phone No.:** 410 446 7324

007	0016	00700016	TP02	11/5/2020	8:15 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 **Free Cl:** 1.1 **Total Cl:** _____

Sample Type:
- ☐ ~~Drinking water~~
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001247003
Received: 11/05/2020 EPA 537.1
Organics 007-0016-TP02

E21001247004
Received: 11/05/2020 EPA 537.1
Organics 007-0016-TP02

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001247003 Method: EPA 537.1 - PFAS

Date Received: 11/05/2020 Date Collected: 11/05/2020
Field ID: 007-0016-TP02 Submitted By: Gay Date Analyzed: 11/11/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		2.03
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.98
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001247004 Method: EPA 537.1 - PFAS

Date Received: 11/05/2020 Date Collected: 11/05/2020
Field ID: 007-0016-TP02FB Submitted By: Gay Date Analyzed: 11/11/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: N/A °C
No Temp Blank in Cooler
AF 11/10/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-0016-TP01 **Plant/Site Name:** LaVale **County:** Allegany

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 323 JH **Phone No.:** 4104467482

001	0016	00100116	01	11/9/2020	1315 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 **Free Cl:** 1.5 **Total Cl:** 1.9

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ ~~EPA Method 524.2 (Volatiles)~~ ☐ VOCS ☐ THMs ☑ PFAS 537.1	☑ Field Blank ☐ Trip Blank	☐ ~~K1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Red	
☐ EPA Method **8260** (VOCs)			

E21001268003
Received: 11/10/2020 EPA 537.1
Organics 0010016TP01

E21001268004
Received: 11/10/2020 EPA 537.1
Organics FB0010016TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001268003 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/09/2020
Field ID: 0010016TP01 Submitted By: Holt Date Analyzed: 11/14/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nunez Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001268004 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/09/2020
Field ID: FB0010016TP01 Submitted By: Holt Date Analyzed: 11/14/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mineer Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: N/A °C
No Temp Blank in Cooler.
AF 11/10/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 01-0004-TP01 **Plant/Site Name:** Friendsville **County:** GARRETT

Location: POE@ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323JH **Phone No.:** 4104467432

011	0004	01100004	01	11/9/2020	730 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.5 **Free Cl:** 1.2 **Total Cl:** 1.5

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ ~~EPA Method **524.2** (Volatiles)~~ ☐ VOCS ☐ THMs ☑ PFAS 537.1	☑ Field Blank ☐ Trip Blank	☑ ~~HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Yellow	
☐ EPA Method **8260** (VOCs)			

E21001268001
Received: 11/10/2020 EPA 537.1
Organics 0110004TP01

E21001268002
Received: 11/10/2020 EPA 537.1
Organics FB0110004TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001268001 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/09/2020
Field ID: 0110004TP01 Submitted By: Holt Date Analyzed: 11/14/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.24
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001268002 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/09/2020
Field ID: FB0110004TP01 Submitted By: Holt Date Analyzed: 11/14/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 11/17/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.10 °C
Rm 11/10/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP11 **Plant/Site Name:** Hampstead WTP 14 **County:** Carroll

Location: Plant **Sample Source:** Dakota (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0003	00600003	TP 11	11/10/2020	820 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.2 **Free Cl:** 1.2 **Total Cl:** 1.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001288001
Received: 11/10/2020 EPA 537.1
Organics 0060003TP11

E21001288002
Received: 11/10/2020 EPA 537.1
Organics FB0060003TP1

Remarks: Well 29 pumping at time of sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288001 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: 0060003TP11 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		5.92
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		5.11
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.28
Perfluorohexanoic acid (PFHxA)	1.0		6.94
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		4.42
Perfluorooctanoic acid (PFOA)	1.0		7.63
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288002 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: FB0060003TP11 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

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_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C

11/10/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP03 **Plant/Site Name:** Hampstead WTP 6 **County:** Carroll

Location: Plant **Sample Source:** 4217 Lower Becklysville Rd (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294-7884

006	0003	0060003	TP 03	11/10/2020	855 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.5 **Free Cl:** 1.3 **Total Cl:** 1.3

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001288003
Received: 11/10/2020 EPA 537.1
Organics 0060003TP03

E21001288004
Received: 11/10/2020 EPA 537.1
Organics FB0060003TP(

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288003 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: 0060003TP03 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		6.81
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.72
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.66
Perfluorohexanoic acid (PFHxA)	1.0		5.94
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		4.83
Perfluorooctanoic acid (PFOA)	1.0		6.29
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288004 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: FB0060003TP03 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

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State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
Sun 11/10/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP09 **Plant/Site Name:** Hampstead WTP 12 **County:** Carroll

Location: Plant **Sample Source:** 4990 Cuddis Drive (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 0076SL **Phone No.:** 410-374-7884

006	0003	00600003	TP 09	11/10/2020	920 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.1 **Free Cl:** 1.5 **Total Cl:** 1.5

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001288005
Received: 11/10/2020 EPA 537.1
Organics 0060003TP09

E21001288006
Received: 11/10/2020 EPA 537.1
Organics FB0060003TP(

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288005 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: 0060003TP09 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		9.16
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.67
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.58
Perfluorohexanoic acid (PFHxA)	1.0		5.84
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.79
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288006 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: FB0060003TP09 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneer Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
Bm 11/10/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP07 **Plant/Site Name:** Hampstead Pumphouse 10 **County:** Carroll

Location: Plant **Sample Source:** Boxwood Drive (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0003	00600003	TP 07	11/10/2020	935 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.0 **Free Cl:** 1.0 **Total Cl:** 1.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001288007
Received: 11/10/2020 EPA 537.1
Organics 0060003TP07

E21001288008
Received: 11/10/2020 EPA 537.1
Organics FB0060003TP(

Remarks: Both Wells pumping at time of sample

Lab Supervisor: _____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288007 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: 0060003TP07 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.06
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.59
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.25
Perfluorohexanoic acid (PFHxA)	1.0		4.99
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.97
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Kinsey Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288008 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: FB0060003TP07 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munees Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 8.0 °C
RM 11/10/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP10 **Plant/Site Name:** Hampstead WTP 13 **County:** Carroll

Location: Plant **Sample Source:** Spotter Court (Street) Hampstead (Town or City)

Collector/ID: Shawn Lawman 0076SL **Phone No.:** 410-294-7884

006	0003	00600003	TP 10	11/10/2020	955 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.6 **Free Cl:** 0.9 **Total Cl:** 1.0

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 DCAS	☑ Field Blank	☑ Trizma Green	

E21001288009
Received: 11/10/2020 EPA 537.1
Organics 0060003TP10

E21001288010
Received: 11/10/2020 EPA 537.1
Organics FB0060003TP

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288009 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: 0060003TP10 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		15.40
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		4.50
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.21
Perfluorohexanoic acid (PFHxA)	1.0		7.70
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		3.33
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001288010 Method: EPA 537.1 - PFAS

Date Received: 11/10/2020 Date Collected: 11/10/2020
Field ID: FB0060003TP10 Submitted By: Lowman Date Analyzed: 11/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 11/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 4.0 °C
RH 11/16/20

PFAS

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 012-0016-03 **Plant/Site Name:** Harford Co. DPW Abingdon **County:** Harford

Location: WTP lab sink **Sample Source:** 3340 Abingdon Rd (Street) Abingdon (Town or City)

Collector/ID: Lookingland EL 7310 **Phone No.:** 4104192709

12	0016	012-0016	03	11/16/2020	0815 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 1.80 **Total Cl:** 1.80

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	☒ FieldBLANK	☒ TRIZMA (*RED)	

E21001328001
Received: 11/16/2020 EPA 537.1
Organics 012-0016-03

E21001328002
Received: 11/16/2020 EPA 537.1
Organics 012-0016-03FB

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001328001 Method: EPA 537.1 - PFAS

Date Received: 11/16/2020 Date Collected: 11/16/2020
Field ID: 012-0016-03 Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.44
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.70
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.93
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munawar Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001328002 Method: EPA 537.1 - PFAS

Date Received: 11/16/2020 Date Collected: 11/16/2020
Field ID: 012-0016-03FB Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeri Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 4.0 °C
PFAS RH 11/16/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 012-0016-01 **Plant/Site Name:** Harford Co. DPW Perryman **County:** Harford

Location: WTP POE tap **Sample Source:** 1538 Perryman Yard Rd (Street) Perryman (Town or City)

Collector/ID: Lockingland GL7810 **Phone No.:** 410 419 3709

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
12	0016	0120016	01	11/16/20	0900 am/pm

Field Data: pH 7.2 **Free Cl:** 1.43 **Total Cl:** 1.43

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	☒ Field BLANK	☒ TRIZMA (*RED)	

E21001328003
Received: 11/16/2020 EPA 537.1
Organics 012-0016-01

E21001328004
Received: 11/16/2020 EPA 537.1
Organics 012-0016-01FB

Remarks:

Lab Supervisor: **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001328003 Method: EPA 537.1 - PFAS

Date Received: 11/16/2020 Date Collected: 11/16/2020
Field ID: 012-0016-01 Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001328004 Method: EPA 537.1 - PFAS

Date Received: 11/16/2020 Date Collected: 11/16/2020
Field ID: 012-0016-01FB Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 4.0 °C

PFAS RH 11/16/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 012-0001-01 **Plant/Site Name:** City of Aberdeen **County:** Harford

Location: WTP POE tap **Sample Source:** 415 S. Post Rd (Street) Aberdeen (Town or City)

Collector/ID: Lookingland GL7210 **Phone No.:** 410 419 2709

12	0001	0120001	01	11/16/2020	0930 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 2.07 **Total Cl:** 2.07

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	☒ Field BLANK	☒ TRIZMA (AREO)	

E21001328005
Received: 11/16/2020 EPA 537.1
Organics 012-0001-01

E21001328006
Received: 11/16/2020 EPA 537.1
Organics 012-0001-01FB

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001328005

Method: EPA 537.1 - PFAS

Date Received: 11/16/2020
Field ID: 012-0001-01

Date Collected: 11/16/2020
Submitted By: Lookingland

Date Analyzed: 11/20/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.19
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		4.27
Perfluorohexanesulfonic acid (PFHxS)	1.0		9.47
Perfluorohexanoic acid (PFHxA)	1.0		7.63
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		14.40
Perfluorooctanoic acid (PFOA)	1.0		8.28
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Muneer

Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001328006 Method: EPA 537.1 - PFAS

Date Received: 11/16/2020 Date Collected: 11/16/2020
Field ID: 012-0001-01FB Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 4.0 °C
PFAS RH 11/16/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly.

Bottle No.: 012-0016-02 **Plant/Site Name:** Harford Co. DPW Havre de Grace **County:** Harford

Location: WTP POE tap **Sample Source:** 413 St John Street (Street) Havre de Grace (Town or City)

Collector/ID: Lockingland GL 7210 **Phone No.:** 410 419 2709

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
12	0016	0120016	02	11/16/2020	1100 am/pm

Field Data: pH 7.4 **Free Cl:** 2.10 **Total Cl:** 2.10

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	☒ Field BLANK	☒ TRIZMA (TRED)	

E21001328007
Received: 11/16/2020 EPA 537.1
Organics 012-0016-02

E21001328008
Received: 11/16/2020 EPA 537.1
Organics 012-0016-02FB

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001328007 Method: EPA 537.1 - PFAS

Date Received: 11/16/2020 Date Collected: 11/16/2020
Field ID: 012-0016-02 Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.74
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.18
Perfluorohexanoic acid (PFHxA)	1.0		3.44
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.44
Perfluorooctanoic acid (PFOA)	1.0		2.60
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Hussain Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001328008 Method: EPA 537.1 - PFAS

Date Received: 11/16/2020 Date Collected: 11/16/2020
Field ID: 012-0016-02FB Submitted By: Lookingland Date Analyzed: 11/20/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munecar Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
11/18/20 JY

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0011-TP02 **Plant/Site Name:** TOWN OF ELKTON **County:** CECIL

Location: WELL 3 **Sample Source:** ELKTON (Street / Town or City)

Collector/ID: JOSEPH GAY 8841 VA **Phone No.:** 4104467324

007	0011	0070011	TP02	11/18/2020	8:40 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.3 **Total Cl:** 1.4

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☑ Community
  - ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001379001
Received: 11/18/2020 EPA 537.1
Organics 0070011TP02

E21001379002
Received: 11/18/2020 EPA 537.1
Organics FB0070011TP

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001379001 Method: EPA 537.1 - PFAS

Date Received: 11/18/2020 Date Collected: 11/18/2020
Field ID: 0070011TP02 Submitted By: Joseph Gay Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.46
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		5.74
Perfluorohexanesulfonic acid (PFHxS)	1.0		4.41
Perfluorohexanoic acid (PFHxA)	1.0		8.58
Perfluorononanoic acid (PFNA)	2.0		2.27
Perfluorooctanesulfonic acid (PFOS)	2.0		7.03
Perfluorooctanoic acid (PFOA)	1.0		20.19
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munsen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001379002

Method: EPA 537.1 - PFAS

Date Received: 11/18/2020
Field ID: FB0070011TP02

Date Collected: 11/18/2020
Submitted By: Joseph Gay

Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen

Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
11/18/20 JY

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0015-TP01 **Plant/Site Name:** ELKTON WEST **County:** CECIL

Location: SYCAMORE **Sample Source:** 242 SYCAMORE (Street) ELKTON (Town or City)

Collector/ID: JOSEPH GAY 884/JO **Phone No.:** 4114467324

007	0015	00700015	TP01	11/18/2020	8:00 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 07.3 **Free Cl:** 0.9 **Total Cl:** 1.2

Sample Type: ☐ Drinking water ☐ Private ☒ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☒ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ 5371	FIELD BLANK	TRIS BASE TRIS HCL	

E21001379003
Received: 11/18/2020 EPA 537.1
Organics 0070015TP01

E21001379004
Received: 11/18/2020 EPA 537.1
Organics FB0070015TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001379003 Method: EPA 537.1 - PFAS

Date Received: 11/18/2020 Date Collected: 11/18/2020
Field ID: 0070015TP01 Submitted By: Joseph Gay Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.66
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		7.41
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.80
Perfluorohexanoic acid (PFHxA)	1.0		8.73
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.09
Perfluorooctanoic acid (PFOA)	1.0		23.98
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001379004 Method: EPA 537.1 - PFAS

Date Received: 11/18/2020 Date Collected: 11/18/2020
Field ID: FB0070015TP01 Submitted By: Joseph Gay Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0° °C
AT 11/20/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-well 24R **Plant/Site Name:** Hampstead WTP 11 Well 24 Raw **County:** Carroll

Location: Plant Raw Tap **Sample Source:** 4119 Cresswell Terrace (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0003	0060003	08	11/20/2020	815 (military)
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.1 **Free Cl:** 0.0 **Total Cl:** 0.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☑ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~**8260** (VOCs)~~ **537.1**	☑ Field Blank	☑ Trizma	

E21001417001
Received: 11/20/2020 EPA 537.1
Organics 006-0003-Well

E21001417002
Received: 11/20/2020 EPA 537.1
Organics FB-006-0003-

Remarks: Well 24 Raw Sample

Lab Supervisor: _____ **Date Reported:** ____/____/_____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001417001 Method: EPA 537.1 - PFAS

Date Received: 11/20/2020 Date Collected: 11/20/2020
Field ID: 006-0003-Well24 Submitted By: Shawn Lowman Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		5.48
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		12.70
Perfluorohexanesulfonic acid (PFHxS)	1.0		53.00
Perfluorohexanoic acid (PFHxA)	1.0		17.70
Perfluorononanoic acid (PFNA)	2.0		3.40
Perfluorooctanesulfonic acid (PFOS)	2.0		270.00
Perfluorooctanoic acid (PFOA)	1.0		13.70
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001417002 Method: EPA 537.1 - PFAS

Date Received: 11/20/2020 Date Collected: 11/20/2020
Field ID: FB-006-0003-Wel Submitted By: Shawn Lowman Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0° °C
AH 11/20/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-Well25R **Plant/Site Name:** Hampstead WTP 11 25 Raw **County:** Carroll

Location: Plant Raw Tap **Sample Source:** 4119 Creswell Terrace (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

006	0003	00600003	08	11/20/2020	825 (am)/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.2 **Free Cl:** 0.0 **Total Cl:** 0.0

Sample Type: ☑ Drinking water ☐ Landfill ☑ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☐ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1	☑ Field Blank	☑ Trizma	

E21001417003
Received: 11/20/2020 EPA 537.1
Organics 006-0003-We

E21001417004
Received: 11/20/2020 EPA 537.1
Organics FB-006-0003

Remarks: Well 25 Raw Sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001417003

Method: EPA 537.1 - PFAS

Date Received: 11/20/2020
Field ID: 006-0003-Well25

Date Collected: 11/20/2020
Submitted By: Shawn Lowman

Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.77
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.33
Perfluorohexanesulfonic acid (PFHxS)	1.0		4.80
Perfluorohexanoic acid (PFHxA)	1.0		4.31
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		6.19
Perfluorooctanoic acid (PFOA)	1.0		3.23
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munecan

Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001417004 Method: EPA 537.1 - PFAS

Date Received: 11/20/2020 Date Collected: 11/20/2020
Field ID: FB-006-0003-Wel Submitted By: Shawn Lowman Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
AT 11/20/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP08C **Plant/Site Name:** Hampstead WTP 11 **County:** Carroll

Location: Plant **Sample Source:** 4119 Creswell Terrace (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

006	0003	006 0003	TP 08	11/20/2020	835 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.0 **Free Cl:** 1.2 **Total Cl:** 1.8

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1	☑ Field Blank	☑ Trizma	

E21001417005
Received: 11/20/2020 EPA 537.1
Organics 006-0003-TP

E21001417006
Received: 11/20/2020 EPA 537.1
Organics FB-006-0003

Remarks: Well 24 & 25 were both pumping for the sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001417005 Method: EPA 537.1 - PFAS

Date Received: 11/20/2020 Date Collected: 11/20/2020
Field ID: 006-0003-TP08C Submitted By: Shawn Lowman Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.85
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		8.61
Perfluorohexanesulfonic acid (PFHxS)	1.0		33.86
Perfluorohexanoic acid (PFHxA)	1.0		11.80
Perfluorononanoic acid (PFNA)	2.0		2.09
Perfluorooctanesulfonic acid (PFOS)	2.0		231.00
Perfluorooctanoic acid (PFOA)	1.0		9.37
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001417006 Method: EPA 537.1 - PFAS

Date Received: 11/20/2020 Date Collected: 11/20/2020
Field ID: FB-006-0003-TP0 Submitted By: Shawn Lowman Date Analyzed: 11/24/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Radia Nuneen Approval date: 11/25/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 11/24/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0023-TP03 **Plant/Site Name:** Thurmont Wells 3,4,9 **County:** Frederick

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

0 1 0	0 0 2 3	0 1 0 0 0 2 3	0 3	11/23/2020	800 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 1.2 **Total Cl:** 1.5

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☒ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ ~~THMs~~ PFAS	☒ Field Blank ☐ Trip Blank	☒ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate (Green)	
☐ EPA Method **8260** (VOCs)			

E21001445001
Received: 11/24/2020 EPA 537.1
Organics 0100023TP03

E21001445002
Received: 11/24/2020 EPA 537.1
Organics FB0100023TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445001 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: 0100023TP03 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.25
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		4.86
Perfluorohexanoic acid (PFHxA)	1.0		1.77
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		9.06
Perfluorooctanoic acid (PFOA)	1.0		10.60
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

A2LA ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445002 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: FB0100023TP03 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
TY 11/24/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0023-TP06 **Plant/Site Name:** Thurmont Well 8 **County:** Frederick

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323JH **Phone No.:** 4104467432

010	0023	0100023	06	11/23/2020	830 (am)pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.2 **Free Cl:** 0.7 **Total Cl:** 1.2

Sample Type:
- ☑ ~~Drinking water~~
- ☐ Private
- ☑ ~~Community~~
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ ~~Water Treatment Plant POE~~
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ ~~SDWA~~ ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ ~~EPA Method 524.2 (Volatiles)~~ 537.1 ☐ ~~VOCS~~ ☐ ~~THMs~~ PFAS	☑ ~~Field Blank~~ ☐ Trip Blank	☐ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate (1280)	
☐ EPA Method **8260** (VOCs)			

E21001445003
Received: 11/24/2020 EPA 537.1
Organics 0100023TP06

E21001445004
Received: 11/24/2020 EPA 537.1
Organics FB0100023TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445003 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: 0100023TP06 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.63
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		4.96
Perfluorohexanoic acid (PFHxA)	1.0		1.77
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		35.30
Perfluorooctanoic acid (PFOA)	1.0		11.60
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445004 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: FB0100023TP06 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeca Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 11/24/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0023-TP05 **Plant/Site Name:** Thurmont Well 7 **County:** Frederick

Location: POE@ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

0 1 0	0 0 2 3	0 1 0 0 0 2 3	0 5	11/23/2020	900 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.5 **Free Cl:** 0.7 **Total Cl:** 1.2

Sample Type: ☑ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☑ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ ~~THMs~~ PFAS	☑ Field Blank ☐ Trip Blank	☐ ~~HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate (PBD)	
☐ EPA Method **8260** (VOCs)			

E21001445005
Received: 11/24/2020 EPA 537.1
Organics 0100023TP05

E21001445006
Received: 11/24/2020 EPA 537.1
Organics FB0100023TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445005 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: 0100023TP05 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.74
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		4.30
Perfluorohexanoic acid (PFHxA)	1.0		1.53
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		19.70
Perfluorooctanoic acid (PFOA)	1.0		5.70
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445006

Method: EPA 537.1 - PFAS

Date Received: 11/24/2020
Field ID: FB0100023TP05

Date Collected: 11/23/2020
Submitted By: Holt

Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
TY 11/24/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0025-TP01 **Plant/Site Name:** Walkersville **County:** Frederick

Location: POE@ NEW WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 63230 **Phone No.:** 4164467432

010	0025	01000025	01	11/23/2020	1000
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.5 **Total Cl:** 1.9

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method ~~524.2 (Volatiles)~~ 537.1 ~~☐ VOCs~~ ~~☐ THMs~~ PFAS	☒ Field Blank ☐ Trip Blank	☒ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate RAD	
☐ EPA Method **8260** (VOCs)			

E21001445007
Received: 11/24/2020 EPA 537.1
Organics 0100025TP01

E21001445008
Received: 11/24/2020 EPA 537.1
Organics FB0100025TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445007 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: 0100025TP01 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445008 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: FB0100025TP01 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
TY 11/24/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0012-TP02 **Plant/Site Name:** Hancock **County:** Washington

Location: POE@ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323TH **Phone No.:** 4104467432

021	0012	0210012	02	11/23/2020	1130 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.9 **Free Cl:** 0.9 **Total Cl:** 1.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ~~☐ VOCs~~ ~~☐ THMs~~ PFAS	☑ Field Blank ☐ Trip Blank	☑ ~~HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)		Green - FB Stamp Yellow - TB	

E21001445009
Received: 11/24/2020 EPA 537.1
Organics 0210012TP02

E21001445010
Received: 11/24/2020 EPA 537.1
Organics FB0210012TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445009 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: 0210012TP02 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001445010 Method: EPA 537.1 - PFAS

Date Received: 11/24/2020 Date Collected: 11/23/2020
Field ID: FB0210012TP02 Submitted By: Holt Date Analyzed: 11/26/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/03/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 20 °C
AT 12/02/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0030-TP01 **Plant/Site Name:** New Design **County:** Fred

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323TH **Phone No.:** 4104467432

0 1 0	0 0 3 0	0 1 0 0 0 3 0	0 1	12/1/2020	800 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.4 **Free Cl:** 1.6 **Total Cl:** 2.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ ☐ THMs ☑ PFAS	☑ ~~Field Blank~~ ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Green	
☐ EPA Method **8260** (VOCs)			

E21001504001
Received: 12/02/2020 EPA 537.1
Organics 010-0030-TP0

E21001504002
Received: 12/02/2020 EPA 537.1
Organics FB-010-0030-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504001 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: 010-0030-TP01 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.00
Perfluorohexanoic acid (PFHxA)	1.0		1.35
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504002 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: FB-010-0030-TP0 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
AT 12/02/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0018-TP02 **Plant/Site Name:** Middletown Well 5/6 **County:** Fred

Location: POE @ WTP **Sample Source:** Well 15 only (Street / Town or City)

Collector/ID: Holt 6323 DH **Phone No.:** 4104467432

010	0018	0100018	02	12/1/2020	900 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 1.1 **Total Cl:** 1.4

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate BLUE	
☐ EPA Method **8260** (VOCs)			

E21001504003
Received: 12/02/2020 EPA 537.1
Organics 010-0018-TP0

E21001504004
Received: 12/02/2020 EPA 537.1
Organics FB-010-0018-

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504003 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: 010-0018-TP02 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.97
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.85
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.41
Perfluorooctanoic acid (PFOA)	1.0		1.95
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525 02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504004 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: FB-010-0018-TP02 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2° °C
At 12/02/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0018-PO2 **Plant/Site Name:** Middletown - Main WTP **County:** FRED

Location: POE C WTP **Sample Source:** End of Water Plant Rd
Street Town or City

Collector/ID: Holt 6323JH **Phone No.:** 4104467432

0 1 0	0 0 1 8	0 1 0 0 0 1 8	0 2	12 / 1 /2020	930 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.7 **Free Cl:** 1.1 **Total Cl:** 1.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate BLUE	
☐ EPA Method **8260** (VOCs)			

E21001504005 Received: 12/02/2020 EPA 537.1 Organics 010-0018-TPC	E21001504006 Received: 12/02/2020 EPA 537.1 Organics FB-010-0018-	

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

2

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504005 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: 010-0018-TP02 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.85
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504006 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: FB-010-0018-TP02 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

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_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2 °C
AT 12/02/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0018-TP03 **Plant/Site Name:** Middletown-Brookridge **County:** Fred

Location: POE @ WTP **Sample Source:** (Wells 22 & 23 Both online)
Street Town or City

Collector/ID: Holt 6323 JH **Phone No.:** 4104467432

0 1 0	0 0 1 8	0 1 0 0 0 1 8	0 3	12/1/2020	1600 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.4 **Free Cl:** 1.3 **Total Cl:** 1.7

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ VOCS ☐ THMs	☑ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate BLUE	
☐ EPA Method **8260** (VOCs)			

E21001504007
Received: 12/02/2020 EPA 537.1
Organics 010-0018-TPC

E21001504008
Received: 12/02/2020 EPA 537.1
Organics FB-010-0018-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

4

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504007 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: 010-0018-TP03 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.09
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.66
Perfluorohexanoic acid (PFHxA)	1.0		1.93
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		5.49
Perfluorooctanoic acid (PFOA)	1.0		2.87
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504008 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: FB-010-0018-TP0[illegible] Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: #2 °C
AT 12/02/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0002-TP01 **Plant/Site Name:** Boonsboro - WTP1 **County:** WASH

Location: POE@ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323JH **Phone No.:** 4104467432

021	0002	02100002	01	12/1/2020	1130 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 1.1 **Total Cl:** 1.2

Sample Type: ☒ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☒ Community ☐ Soil/Sediment ☒ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☒ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ PFAS ☐ THMs	☒ ~~Field Blank~~ ☐ Trip Blank	☒ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Green	
☐ EPA Method **8260** (VOCs)			

E21001504009
Received: 12/02/2020 EPA 537.1
Organics 021-0002-TPC

E21001504010
Received: 12/02/2020 EPA 537.1
Organics FB-021-0002-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504009 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: 021-0002-TP01 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.50
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.03
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuraeen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504010 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: FB-021-0002-TP0' Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 20 °C
AT 12/02/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0002-TP03 **Plant/Site Name:** Boonsboro - Keedysville **County:** Wash

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 632301 **Phone No.:** 4104467432

021	0002	02100 02	03	12/1/2020	1100 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.0 **Free Cl:** 0.6 **Total Cl:** 1.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ VOCs ☐ THMs PFAS	☑ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Green	
☐ EPA Method **8260** (VOCs)			

E21001504011
Received: 12/02/2020 EPA 537.1
Organics 021-0002-TPC

E21001504012
Received: 12/02/2020 EPA 537.1
Organics FB-021-0002-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

b

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504011 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: 021-0002-TP03 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.52
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.70
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.74
Perfluorooctanoic acid (PFOA)	1.0		1.04
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504012 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: FB-021-0002-TP0 Submitted By: Holt 6323JH Date Analyzed: 12/04/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: _____ °C

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0002-TP02 **Plant/Site Name:** Boonsboro WTP2 **County:** ~~Fred~~ WASH

Location: POE @ WTP **Sample Source:** Well 8 (Street) (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467452

021	0002	02100202	02	12/1/2020	1200 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 **Free Cl:** 0.7 **Total Cl:** 0.9

Sample Type:
- ☑ Drinking water
- ☐ Priyate
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate Green	
☐ EPA Method **8260** (VOCs)			

E21001504013
Received: 12/02/2020 EPA 537.1
Organics 021-0002-TP(

E21001504014
Received: 12/02/2020 EPA 537.1
Organics FB-021-0002-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504013 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: 021-0002-TP02 Submitted By: Holt 6323JH Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.13
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.17
Perfluorohexanoic acid (PFHxA)	1.0		5.54
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.74
Perfluorooctanoic acid (PFOA)	1.0		3.61
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munees Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001504014 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/01/2020
Field ID: FB-021-0002-TP0: Submitted By: Holt 6323JH Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1 °C
AT 12/02/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0005-TP02 **Plant/Site Name:** WSSC PATUXENT **County:** MONT.

Location: PATUXENT **Sample Source:** 6101 SANDY SPRING RD (Street) LAUREL (Town or City)

Collector/ID: JOSEPH GAY 884/JG **Phone No.:** 4104467324

015	0005	0150005	TP02	12/2/2020	7:45 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 07.0 **Free Cl:** 0.2 **Total Cl:** 0.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	FIELD BLANK	TRIS BASE TRIS HCL	

E21001507001
Received: 12/02/2020 EPA 537.1
Organics 015-0005-TPC

E21001507002
Received: 12/02/2020 EPA 537.1
Organics FB-015-0005-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

2

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001507001 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/02/2020
Field ID: 015-0005-TP02 Submitted By: Joseph Gay Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.08
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.98
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.92
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
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Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001507002

Method: EPA 537.1 - PFAS

Date Received: 12/02/2020
Field ID: FB-015-0005-TP0

Date Collected: 12/02/2020
Submitted By: Joseph Gay

Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva

Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
AT 12/02/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0005 TP01 **Plant/Site Name:** WSSC POTOMAC **County:** MONT

Location: POTOMAC **Sample Source:** 12200 RIVER RD (Street) POTOMAC (Town or City)

Collector/ID: JOSEPH GAY 884/10 **Phone No.:** 4104467324

015	0005	0150005	TP	01	12/2/2020	8:52 am/pm
County	System No.	PWSID	Plant No.		Date Collected	Time Collected

Field Data: pH 06.6 **Free Cl:** 1.60 **Total Cl:** 2.3

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001507003
Received: 12/02/2020 EPA 537.1
Organics 015-0005 TP0

E21001507004
Received: 12/02/2020 EPA 537.1
Organics FB-015-0005

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001507003 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/02/2020
Field ID: 015-0005 TP01 Submitted By: Joseph Gay Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.86
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.39
Perfluorohexanoic acid (PFHxA)	1.0		3.57
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.83
Perfluorooctanoic acid (PFOA)	1.0		3.35
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001507004 Method: EPA 537.1 - PFAS

Date Received: 12/02/2020 Date Collected: 12/02/2020
Field ID: FB-015-0005 TP0 Submitted By: Joseph Gay Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 12/7/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 023-0001-01 **Plant/Site Name:** Berlin - Powellton **County:** Wor

Location: WTP **Sample Source:** 17 Powellton Ave (Street) Berlin (Town or City)

Collector/ID: K Bassett **Phone No.:** 410-868-62[illegible]

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
023		0230001	01	12/4/2020	900 (am/pm)

Field Data: pH 7.6 **Free Cl:** 23 error **Total Cl:** 73 error

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☑ Community
  - ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other 2 empty Field Blanks used to transfer water

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.4** (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1	☑ Field Blank	☑ ~~1:1 HCL~~ Trizma ☐ 1:1 HCL + Ascorbic acid	

E21001530001
Received: 12/07/2020 EPA 537.1
Organics 023000101

E21001530002
Received: 12/07/2020 EPA 537.1
Organics FB02300010

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY **SAMPLE TESTED AS RECEIVED**

DHMH98 (05/15)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525 02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001530001 Method: EPA 537.1 - PFAS

Date Received: 12/07/2020 Date Collected: 12/04/2020
Field ID: 023000101 Submitted By: K. Bassett Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.17
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.36
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.45
Perfluorohexanoic acid (PFHxA)	1.0		3.15
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.58
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

pH measured > 7.5 and chlorine measured 4.0

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001530002 Method: EPA 537.1 - PFAS

Date Received: 12/07/2020 Date Collected: 12/04/2020
Field ID: FB023000101 Submitted By: K. Bassett Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
J.Y. 12/7/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 023-0001-02 **Plant/Site Name:** Berlin - Franklin **County:** Wor

Location: WTP **Sample Source:** 98 Franklin Ave (Street) Berlin (Town or City)

Collector/ID: K Bussett **Phone No.:** 410-868-6226

023		0230001	02	12/4/2020	915 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.4 **Free Cl:** 0.0 **Total Cl:** 0.0

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☑ Community
  - ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other 2 Empty field blanks used to transfer water

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.4** (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260~~ (VOCs) 537.1	☑ Field Blank	~~☐ 1:1 HCL~~ Trizma ☐ 1:1 HCL + Ascorbic acid	

E21001530003
Received: 12/07/2020 EPA 537.1
Organics 023000102

E21001530004
Received: 12/07/2020 EPA 537.1
Organics FB02300010

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

DHMH98 (05/15)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001530003 Method: EPA 537.1 - PFAS

Date Received: 12/07/2020 Date Collected: 12/04/2020
Field ID: 023000102 Submitted By: K. Bassett Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.47
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.79
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munawar Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001530004 Method: EPA 537.1 - PFAS

Date Received: 12/07/2020 Date Collected: 12/04/2020
Field ID: FB023000102 Submitted By: K. Bassett Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
J.Y. 12/7/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 023-0001-03 **Plant/Site Name:** Berlin - Branch **County:** Wor

Location: WTP **Sample Source:** 114 Branch St (Street) Berlin (Town or City)

Collector/ID: K Bassett **Phone No.:** 410-8684226

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
023		0230001	03	12/4/2020	945 am/pm

Field Data: pH 7.4 **Free Cl:** 2.0 **Total Cl:** 2.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☐ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ~~☑ SDWA~~ ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other 2 empty field blanks used to transfer water

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.4** (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1	~~☐ Field Blank~~	~~☐ 1:1 HCL~~ Trizma ☐ 1:1 HCL + Ascorbic acid	

E21001530005
Received: 12/07/2020 EPA 537.1
Organics 023000103

E21001530006
Received: 12/07/2020 EPA 537.1
Organics FB02300010

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

DHMH98 (05/15)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001530005 Method: EPA 537.1 - PFAS

Date Received: 12/07/2020 Date Collected: 12/04/2020
Field ID: 023000103 Submitted By: K. Bassett Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.22
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.40
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munawar Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001530006 Method: EPA 537.1 - PFAS

Date Received: 12/07/2020 Date Collected: 12/04/2020
Field ID: FB023000103 Submitted By: K. Bassett Date Analyzed: 12/09/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.5 °C
12/8/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0012-TP08 **Plant/Site Name:** Taneytown WTP 8 **County:** Carroll

Location: Plant **Sample Source:** Sells Mill (Street) Taneytown (Town or City)

Collector/ID: Shawn Lowman 0076 SL **Phone No.:** 410-244-7884

006	0012	0060012	TP 08	12/8/2020	710 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 9.0 **Free Cl:** 2.3 **Total Cl:** 2.3

Sample Type: ☑ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☑ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAs	☑ Field Blank	☑ Trizma Dad	

E21001536001
Received: 12/08/2020 EPA 537.1
Organics 0060012TP08

E21001536002
Received: 12/08/2020 EPA 537.1
Organics 0060012TP08

Sample lost due to laboratory accident - RW

Remarks: Customer informed to recollect - (by email 12/11/20)

Lab Supervisor: _____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001536001 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP08 Submitted By: SHAWN LOWMAN Date Analyzed:

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		Rejected
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Rejected
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		Rejected
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Rejected
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected
Perfluorobutanesulfonic acid (PFBS)	1.0		Rejected
Perfluorodecanoic acid (PFDA)	1.0		Rejected
Perfluorododecanoic acid (PFDoA)	2.0		Rejected
Perfluoroheptanoic acid (PFHpA)	2.0		Rejected
Perfluorohexanesulfonic acid (PFHxS)	1.0		Rejected
Perfluorohexanoic acid (PFHxA)	1.0		Rejected
Perfluorononanoic acid (PFNA)	2.0		Rejected
Perfluorooctanesulfonic acid (PFOS)	2.0		Rejected
Perfluorooctanoic acid (PFOA)	1.0		Rejected
Perfluorotetradecanoic acid (PFTDA)	1.0		Rejected
Perfluorotridecanoic acid (PFTrDA)	2.0		Rejected
Perfluoroundecanoic acid (PFUnDA)	1.0		Rejected

Comments: Sample lost due to lab accident
Br 12/23/20

Approved by: [signature] Approval date: 12/23/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001536002

Method: EPA 537.1 - PFAS

Date Received: 12/08/2020
Field ID: 0060012TP08FB

Date Collected: 12/08/2020
Submitted By: SHAWN LOWMAN

Date Analyzed:

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		Rejected
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		Rejected
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		Rejected
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		Rejected
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		Rejected
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		Rejected
Perfluorobutanesulfonic acid (PFBS)	1.0		Rejected
Perfluorodecanoic acid (PFDA)	1.0		Rejected
Perfluorododecanoic acid (PFDoA)	2.0		Rejected
Perfluoroheptanoic acid (PFHpA)	2.0		Rejected
Perfluorohexanesulfonic acid (PFHxS)	1.0		Rejected
Perfluorohexanoic acid (PFHxA)	1.0		Rejected
Perfluorononanoic acid (PFNA)	2.0		Rejected
Perfluorooctanesulfonic acid (PFOS)	2.0		Rejected
Perfluorooctanoic acid (PFOA)	1.0		Rejected
Perfluorotetradecanoic acid (PFTDA)	1.0		Rejected
Perfluorotridecanoic acid (PFTrDA)	2.0		Rejected
Perfluoroundecanoic acid (PFUnDA)	1.0		Rejected

Comments: Sample lost due to lab accident - [initials] 12/23/20

Approved by: [signature]

Approval date: 12/23/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.5 °C
@ 12/8/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0012-TP01 **Plant/Site Name:** Taneytown WTP 1 **County:** Carroll

Location: Plant **Sample Source:** Antrim St. (Street) Taneytown (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0012	006 0012	TP 01	12/8/2020	735 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.9 **Free Cl:** 1.2 **Total Cl:** 1.2

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAs	☑ Field Blank	☑ Trizma green	

E21001536003
Received: 12/08/2020 EPA 537.1
Organics 0060012TP01

E21001536004
Received: 12/08/2020 EPA 537.1
Organics 0060012TP01

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001536003 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP01 Submitted By: SHAWN LOWMAN Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.65
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.55
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.98
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munecan Approval date: 12/23/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001536004 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP01FB Submitted By: SHAWN LOWMAN Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 12/23/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.5 °C
12/8/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0012-TP02 **Plant/Site Name:** Taneytown WTP 2 **County:** Carroll

Location: Plant **Sample Source:** Carroll Heights Rd (Street) Taneytown (Town or City)

Collector/ID: Shawn Lowmiller 00765L **Phone No.:** 410-294-7884

006	0012	0060012	TP 02	12/8/2020	800 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.7 **Free Cl:** 1.8 **Total Cl:** 1.8

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001536005
Received: 12/08/2020 EPA 537.1
Organics 0060012TP02

E21001536006
Received: 12/08/2020 EPA 537.1
Organics 0060012TP02

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001536005 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP02 Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		7.63
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.72
Perfluorohexanesulfonic acid (PFHxS)	1.0		3.00
Perfluorohexanoic acid (PFHxA)	1.0		4.03
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		7.99
Perfluorooctanoic acid (PFOA)	1.0		6.58
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneez Approval date: 12/23/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001536006 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP02FB Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen Approval date: 12/23/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.5 °C
12/8/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0012-TP05 **Plant/Site Name:** Taneytown WTPS **County:** Carroll

Location: Plant **Sample Source:** Pump House Rd (Street) Taneytown (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0012	0060012	TP 05	12/8/2020	8:25 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.0 **Free Cl:** 2.0 **Total Cl:** 2.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001536007
Received: 12/08/2020 EPA 537.1
Organics 0060012TP0

E21001536008
Received: 12/08/2020 EPA 537.1
Organics 0060012TP0

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001536007 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP05 Submitted By: SHAWN LOWMAN Date Analyzed: 12/19/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.14
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.00
Perfluorohexanoic acid (PFHxA)	1.0		1.06
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.79
Perfluorooctanoic acid (PFOA)	1.0		1.96
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen Approval date: 12/23/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001536008 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP05FB Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/23/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.8 °C
to 12/8/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0012-TP03 **Plant/Site Name:** Taneytown WTP 3 **County:** Carroll

Location: Plant **Sample Source:** Park Rd (Street) Taneytown (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0012	0060012	TP 03	12/8/2020	850 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.1 **Free Cl:** 1.7 **Total Cl:** 1.7

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001537001
Received: 12/08/2020 EPA 537.1
Organics 0060012TP03

E21001537002
Received: 12/08/2020 EPA 537.1
Organics 0060012TP03I

Remarks: Pump Well 11 running at time of sample

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001537001 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP03 Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.71
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		7.99
Perfluorohexanoic acid (PFHxA)	1.0		2.10
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		14.93
Perfluorooctanoic acid (PFOA)	1.0		3.60
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
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Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001537002 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP03FB Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
e 12/8/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006.0012-TP06 **Plant/Site Name:** Taneytown WTP 6 **County:** Carroll

Location: Plant **Sample Source:** Clubside Drive (Street) Taneytown (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0012	0060012	TP 06	12/18/2020	920
County	System No.	PWSID	Plant No.	Date Collected	Time Collected (mm/dm)

Field Data: pH 7.7 **Free Cl:** 3.4 **Total Cl:** 3.4

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001537003
Received: 12/08/2020 EPA 537.1
Organics 0060012TP06

E21001537004
Received: 12/08/2020 EPA 537.1
Organics 0060012TP06i

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001537003 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP06 Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		6.49
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.05
Perfluorooctanoic acid (PFOA)	1.0		2.52
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001537004 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP06FB Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 00 °C @ 12/8/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0012-TP07 **Plant/Site Name:** Taneytown WTP 7 **County:** Carroll

Location: Plant **Sample Source:** Hayside Lane (Street) Taneytown (Town or City)

Collector/ID: Shawn Lowman 0076 SL **Phone No.:** 410-294-7884

006	0012	006001	TP 07	12/8/2020	945 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.0 **Free Cl:** 2.9 **Total Cl:** 2.9

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs.	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001537005
Received: 12/08/2020 EPA 537.1
Organics 0060012TP07

E21001537006
Received: 12/08/2020 EPA 537.1
Organics 0060012TP07

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001537005 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP07 Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		11.15
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.70
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		3.59
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munsen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001537006 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060012TP07FB Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.5 °C
12/18/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0013-TP04 **Plant/Site Name:** Union Bridge Town Hall **County:** Carroll

Location: Plant **Sample Source:** 104 W. Locust St (Street) Union Bridge (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-244-7884

006	0013	0060013	TP 04	12/18/2020	1020 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.4 **Free Cl:** 1.8 **Total Cl:** 1.8

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001537007
Received: 12/08/2020 EPA 537.1
Organics 0060013TP04

E21001537008
Received: 12/08/2020 EPA 537.1
Organics 0060013TP04

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001537007 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060013TP04 Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.54
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.16
Perfluorohexanesulfonic acid (PFHxS)	1.0		8.81
Perfluorohexanoic acid (PFHxA)	1.0		3.50
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		16.43
Perfluorooctanoic acid (PFOA)	1.0		4.86
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munees Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001537008 Method: EPA 537.1 - PFAS

Date Received: 12/08/2020 Date Collected: 12/08/2020
Field ID: 0060013TP04FB Submitted By: SHAWN LOWMAN Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
AF 12/9/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0249-TP01 **Plant/Site Name:** MISTY MEADOWS 2 **County:** CECIL

Location: WELLS 1+2 **Sample Source:** _____ (Street) PORT DEPOSIT (Town or City)

Collector/ID: JOSEPH GAY 884/JG **Phone No.:** 4104467324

007	0249	00702449	TP	01/219/2020	8:52 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.1 **Free Cl:** 0.7 **Total Cl:** 1.0

Sample Type: ☑ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☐ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method **8260** (VOCs) PFAS 537.1	~~TRIS BASE~~ FIELD BLANK	TRIS BASE TRIS HCL	

E21001552001
Received: 12/09/2020 EPA 537.1
Organics 0070249TP01

E21001552002
Received: 12/09/2020 EPA 537.1
Organics FB0070249TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/_____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18) SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001552001 Method: EPA 537.1 - PFAS

Date Received: 12/09/2020 Date Collected: 12/09/2020
Field ID: 0070249TP01 Submitted By: Joseph Gay Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.20
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.43
Perfluorohexanoic acid (PFHxA)	1.0		1.94
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.46
Perfluorooctanoic acid (PFOA)	1.0		3.54
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001552002 Method: EPA 537.1 - PFAS

Date Received: 12/09/2020 Date Collected: 12/09/2020
Field ID: FB0070249TP01 Submitted By: Joseph Gay Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munsen Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
AF 12/9/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0247-TP01 WELLS **Plant/Site Name:** MISTY MEADOWS I **County:** CECIL

Location: 1A, 2A, 1B **Sample Source:** Street PORT DEPOSIT Town or City

Collector/ID: JOSEPH GAY 884/16 **Phone No.:** 4104467324

007	0247	00702477	TP01	12/9/2020	9:00 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.4 **Free Cl:** 0.9 **Total Cl:** 1.0

Sample Type: ☐ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☑ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ DCAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001552003
Received: 12/09/2020 EPA 537.1
Organics 0070247TP01

E21001552004
Received: 12/09/2020 EPA 537.1
Organics FB0070247TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18) **SAMPLE TESTED AS RECEIVED**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001552003

Method: EPA 537.1 - PFAS

Date Received: 12/09/2020
Field ID: 0070247TP01

Date Collected: 12/09/2020
Submitted By: Joseph Gay

Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.59
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		2.30
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		3.95
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001552004

Method: EPA 537.1 - PFAS

Date Received: 12/09/2020
Field ID: FB0070247TP01

Date Collected: 12/09/2020
Submitted By: Joseph Gay

Date Analyzed: 12/12/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca

Approval date: 12/16/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
KB 12/11/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0023-TP06 **Plant/Site Name:** Thurmont Well 8 **County:** FRED

Location: POE @ WTP **Sample Source:** Lab sink
Street Town or City

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

010	0023	010023	06	12/10/2020	915 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.4 **Free Cl:** 1.2 **Total Cl:** 1.5

Sample Type: ☑ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☑ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ ~~THMs~~ ☑ PFAS	☑ Field Blank ☐ Trip Blank Yellow-FB Green - samples	☐ ~~1:1 HCl~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001573001
Received: 12/11/2020 EPA 537.1
Organics 010-0023-TPC

E21001573002
Received: 12/11/2020 EPA 537.1
Organics FB010-0023-T

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001573001 Method: EPA 537.1 - PFAS

Date Received: 12/11/2020 Date Collected: 12/10/2020
Field ID: 010-0023-TP06 Submitted By: Holt Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.79
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		4.79
Perfluorohexanoic acid (PFHxA)	1.0		1.74
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		34.50
Perfluorooctanoic acid (PFOA)	1.0		11.00
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001573002 Method: EPA 537.1 - PFAS

Date Received: 12/11/2020 Date Collected: 12/10/2020
Field ID: FB010-0023-TP06 Submitted By: Holt Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
KBR 12/11/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

010-0023-RW06 on bottles.

Bottle No.: FB010-0023-RW06 KBR 12/11/20 **Plant/Site Name:** Thurmont Well 8 **County:** FRED

Location: RAW TAP @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

010	0023	01000023	06	12/10/20 20	920 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 0.0 **Total Cl:** 0.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☐ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☑ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ PFAS ☐ ~~THMs~~	☑ Field Blank ☐ Trip Blank Yellow-FB	☐ ~~1:1 HCL~~ NR 12 MA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)	Green-Samples		

E21001573003
Received: 12/11/2020 EPA 537.1
Organics 010-0023-RW(

E21001573004
Received: 12/11/2020 EPA 537.1
Organics FB010-0023-R

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001573003

Method: EPA 537.1 - PFAS

Date Received: 12/11/2020
Field ID: 010-0023-RW06

Date Collected: 12/10/2020
Submitted By: Holt

Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.56
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		4.76
Perfluorohexanoic acid (PFHxA)	1.0		1.75
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		35.83
Perfluorooctanoic acid (PFOA)	1.0		11.02
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001573004 Method: EPA 537.1 - PFAS

Date Received: 12/11/2020 Date Collected: 12/10/2020
Field ID: FB010-0023-RW0 Submitted By: Holt Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/18/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
RH 12/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0012-TP08 **Plant/Site Name:** Taneytown WTP 8 **County:** Carroll

Location: Plant **Sample Source:** Sells Mill Rd (Street) Taneytown (Town or City)

Collector/ID: Shawn Lowman 0076SL **Phone No.:** 410-294-7884

0 0 6	0 0 1 2	0 0 6 0 0 1 2	TP 0 8
County	System No.	PWSID	Plant No.

12 / 14 /2020 Date Collected

710 am/pm Time Collected

Field Data: pH 9.1 **Free Cl:** 1.8 **Total Cl:** 1.8

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001583001
Received: 12/14/2020 EPA 537.1
Organics 006-0012-TP08

E21001583002
Received: 12/14/2020 EPA 537.1
Organics FB-006-0012-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583001

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: 006-0012-TP08

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583002

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: FB-006-0012-TP0

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
RH 12/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP08 **Plant/Site Name:** Manchester WTP 8 **County:** Carroll

Location: Plant **Sample Source:** 3861 Westminster St. (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 0076SL **Phone No.:** 410-294-7884

006	0006	00600006	TP 08	12/14/2020	755 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.5 **Free Cl:** 1.6 **Total Cl:** 1.7

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ____ ☐ Other ____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other ____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001583003
Received: 12/14/2020 EPA 537.1
Organics 006-0006-TP-(

E21001583004
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-

Remarks: ____

Lab Supervisor: ____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583003

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: 006-0006-TP-08

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.06
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.47
Perfluorohexanoic acid (PFHxA)	1.0		1.35
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.87
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mineea

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583004

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: FB-006-0006-TP-(

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
RH 12/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP09 **Plant/Site Name:** Manchester WTP 9 (3714) **County:** Carroll

Location: Plant **Sample Source:** Overlook Ct (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 0076 SL **Phone No.:** 410-294-7884

006	0006	00600006	TP 09	12/14/2020	835 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 **Free Cl:** 1.5 **Total Cl:** 1.5

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001583005
Received: 12/14/2020 EPA 537.1
Organics 006-0006-TP-(

E21001583006
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583005

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: 006-0006-TP-09

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.54
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.51
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.65
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583006

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: FB-006-0006-TP-(

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/15/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
RH 12/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP04 **Plant/Site Name:** Manchester WTP 4 **County:** Carroll

Location: Plant **Sample Source:** 2935 R Buchman Rd (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0006	0060006	TP 04	12/14/2020	905 am/pm

Field Data: pH 7.4 **Free Cl:** 1.2 **Total Cl:** 1.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001583007
Received: 12/14/2020 EPA 537.1
Organics 006-0006-TP0

E21001583008
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583007

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: 006-0006-TP04

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.23
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.93
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.51
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583008

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: FB-006-0006-TP0

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
RH 12/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP02 **Plant/Site Name:** Manchester WTP 2 **County:** Carroll

Location: Plant **Sample Source:** Holland Drive (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0006	0060006	TP 02	12/14/2020	935 am/pm

Field Data: pH 7.1 **Free Cl:** 1.9 **Total Cl:** 1.9

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001583009
Received: 12/14/2020 EPA 537.1
Organics 006-0006-TP0

E21001583010
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583009

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: 006-0006-TP02

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.30
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.65
Perfluorohexanoic acid (PFHxA)	1.0		2.09
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.90
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583010

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: FB-006-0006-TP0

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
RH 12/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP11 **Plant/Site Name:** Manchester Hallie Hill WTP **County:** Carroll

Location: Plant **Sample Source:** 3615 Hallie Ave. (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0006	006 0006	TP 11	12/14/2020	1005 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.6 **Free Cl:** 3.7 **Total Cl:** 3.9

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001583011
Received: 12/14/2020 EPA 537.1
Organics 006-0006-TP1

E21001583012
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

2

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583011

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: 006-0006-TP11

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.40
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.97
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.62
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583012

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: FB-006-0006-TP1

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.6 °C
RH 12/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP15 **Plant/Site Name:** Manchester High School **County:** Carroll

Location: Plant **Sample Source:** Route 30 (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

006	0006	0060006	TP 15	12/14/2020	1050 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 9.2 **Free Cl:** 0.6 **Total Cl:** 0.7

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Green	

E21001583013
Received: 12/14/2020 EPA 537.1
Organics 006-0006-TP1

E21001583014
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-

Remarks: All Wells Pumping at time of Sample

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583013

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: 006-0006-TP15

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.41
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.18
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583014

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: FB-006-0006-TP1

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
RH 12/14/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP07 **Plant/Site Name:** Manchester WTP 7 **County:** Carroll

Location: Plant **Sample Source:** Patricia Ct (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	00006	0060006	TP 07	12/14/2020	1125 am/pm

Field Data: pH 6.9 **Free Cl:** 0.9 **Total Cl:** 1.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001583015
Received: 12/14/2020 EPA 537.1
Organics 006-0006-TP0

E21001583016
Received: 12/14/2020 EPA 537.1
Organics FB-006-0006-

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583015

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: 006-0006-TP07

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		21.29
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.79
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.48
Perfluorohexanoic acid (PFHxA)	1.0		4.51
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		5.83
Perfluorooctanoic acid (PFOA)	1.0		7.87
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001583016

Method: EPA 537.1 - PFAS

Date Received: 12/14/2020
Field ID: FB-006-0006-TP0

Date Collected: 12/14/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/15/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP14 **Plant/Site Name:** Manchester WTP 14 **County:** Carroll

Location: Plant **Sample Source:** Hollie Ave (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 4102947884

0 0 6	0 0 0 6	0 0 6 0 0 0 6	TP 1 4	12 / 15 /20 20	910 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 1.6 **Total Cl:** 1.6

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma yellow	

E21001591001
Received: 12/15/2020 EPA 537.1
Organics 006-0006-TP1

E21001591002
Received: 12/15/2020 EPA 537.1
Organics FB-006-0006-T

Remarks: Well N pumping at time of sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

ln

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001591001

Method: EPA 537.1 - PFAS

Date Received: 12/15/2020
Field ID: 006-0006-TP14

Date Collected: 12/15/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001591002

Method: EPA 537.1 - PFAS

Date Received: 12/15/2020
Field ID: FB-006-0006-TP1

Date Collected: 12/15/2020
Submitted By: Lowman

Date Analyzed: 12/17/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/15/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP12 **Plant/Site Name:** Manchester Ferrier Road **County:** Carroll

Location: Plant **Sample Source:** Ferrier Road (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-394-7884

006	0006	0060006	TP 12	12/15/2020	940 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 9.7 **Free Cl:** 2.4 **Total Cl:** 2.4

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001591003
Received: 12/15/2020 EPA 537.1
Organics 006-0006-TP1

E21001591004
Received: 12/15/2020 EPA 537.1
Organics FB-006-0006-T

Remarks: Well C was pumping at time of sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001591003

Method: EPA 537.1 - PFAS

Date Received: 12/15/2020
Field ID: 006-0006-TP12

Date Collected: 12/15/2020
Submitted By: Lowman

Date Analyzed: 12/19/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munawar

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001591004

Method: EPA 537.1 - PFAS

Date Received: 12/15/2020
Field ID: FB-006-0006-TP1

Date Collected: 12/15/2020
Submitted By: Lowman

Date Analyzed: 12/19/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nasreen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/15/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP13 **Plant/Site Name:** Manchester WTP Park Ridge **County:** Carroll

Location: Plant **Sample Source:** Washington Way (Street) Manchester (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-374-7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0006	0060006	TP 13	12/15/2020	1025 am/pm

Field Data: pH 8.3 **Free Cl:** 1.8 **Total Cl:** 2.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001591005
Received: 12/15/2020 EPA 537.1
Organics 006-0006-TP1

E21001591006
Received: 12/15/2020 EPA 537.1
Organics FB-006-0006-T

Remarks: Well A pumping at time of sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001591005

Method: EPA 537.1 - PFAS

Date Received: 12/15/2020
Field ID: 006-0006-TP13

Date Collected: 12/15/2020
Submitted By: Lowman

Date Analyzed: 12/19/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.71
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.05
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.59
Perfluorohexanoic acid (PFHxA)	1.0		4.69
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		6.53
Perfluorooctanoic acid (PFOA)	1.0		8.20
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneez

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001591006

Method: EPA 537.1 - PFAS

Date Received: 12/15/2020
Field ID: FB-006-0006-TP1

Date Collected: 12/15/2020
Submitted By: Lowman

Date Analyzed: 12/19/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/15/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0006-TP10 **Plant/Site Name:** Manchester WTP 10 **County:** Carroll

Location: Plant **Sample Source:** Foot bridge Dr. (Street) Manchester (Town or City)

Collector/ID: Shawn Lawson 00765L **Phone No.:** 410 294 7884

006	0006	00600006	TP 10	12/15/2020	1050 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 **Free Cl:** 0.6 **Total Cl:** 0.7

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☑ Community
  - ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001591007
Received: 12/15/2020 EPA 537.1
Organics 006-0006-TP1(

E21001591008
Received: 12/15/2020 EPA 537.1
Organics FB-006-0006-T

Remarks: Well D running at time of sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001591007 Method: EPA 537.1 - PFAS

Date Received: 12/15/2020 Date Collected: 12/15/2020
Field ID: 006-0006-TP10 Submitted By: Lowman Date Analyzed: 12/19/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		8.67
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.13
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		2.57
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		3.90
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001591008

Method: EPA 537.1 - PFAS

Date Received: 12/15/2020
Field ID: FB-006-0006-TP1(

Date Collected: 12/15/2020
Submitted By: Lowman

Date Analyzed: 12/19/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneer

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
AT 12/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0008-TP03W1 **Plant/Site Name:** New Windsor Hillside Well 1 **County:** Carroll

Location: Plant **Sample Source:** End of Hillside Drive (Street) New Windsor (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0008	006 00 08	TP 03	12/21/2020	640 (am)/pm

Field Data: pH 7.5 **Free Cl:** 2.7 **Total Cl:** 2.7

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001627001
Received: 12/21/2020 EPA 537.1
Organics 006-0008-TP03

E21001627002
Received: 12/21/2020 EPA 537.1
Organics FB-006-0008-T

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/_____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001627001

Method: EPA 537.1 - PFAS

Date Received: 12/21/2020
Field ID: 006-0008-TP03W

Date Collected: 12/21/2020
Submitted By: Shawn Lowman

Date Analyzed: 12/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.81
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		3.73
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		2.94
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001627002

Method: EPA 537.1 - PFAS

Date Received: 12/21/2020
Field ID: FB-006-0008-TP0

Date Collected: 12/21/2020
Submitted By: Shawn Lowman

Date Analyzed: 12/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
AT 12/21/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0008-TP03WD **Plant/Site Name:** New Windsor Hillside Well 2 **County:** Carroll

Location: Plant **Sample Source:** End of Hillside Drive (Street) New Windsor (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0008	0060008	TP 03	12/21/2020	710 (am)/pm

Field Data: pH 7.8 **Free Cl:** 0.5 **Total Cl:** 0.5

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001627003
Received: 12/21/2020 EPA 537.1
Organics 006-0008-TP03

E21001627004
Received: 12/21/2020 EPA 537.1
Organics FB-006-0008-T

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001627003

Method: EPA 537.1 - PFAS

Date Received: 12/21/2020
Field ID: 006-0008-TP03W

Date Collected: 12/21/2020
Submitted By: Shawn Lowman

Date Analyzed: 12/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.21
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		2.87
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.48
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001627004

Method: EPA 537.1 - PFAS

Date Received: 12/21/2020
Field ID: FB-006-0008-TP0

Date Collected: 12/21/2020
Submitted By: Shawn Lowman

Date Analyzed: 12/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.6 °C
RH 12122120

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0036-TP01 **Plant/Site Name:** Libertytown Apts **County:** FRED

Location: POE @ WTP **Sample Source:** Both wells online (Street / Town or City)

Collector/ID: Holt 6323 DH **Phone No.:** 4104467432

010	0036	01010036	01	12/21/2020	815 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.1 **Free Cl:** 1.1 **Total Cl:** 1.4

Sample Type: ☒ Drinking water ☐ Private ☒ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☒ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☒ EPA Method **524.2** (Volatiles) ☒ ~~VOCs~~ PFAS 537.1 ☐ THMs	☒ Field Blank ☐ Trip Blank	☒ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate NO COLOR	
☐ EPA Method **8260** (VOCs)			

E21001632001
Received: 12/22/2020 EPA 537.1
Organics 010-0036-TP0

E21001632002
Received: 12/22/2020 EPA 537.1
Organics FB-010-0036-T

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001632001 Method: EPA 537.1 - PFAS

Date Received: 12/22/2020 Date Collected: 12/21/2020
Field ID: 010-0036-TP01 Submitted By: Holt Date Analyzed: 12/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.30
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001632002 Method: EPA 537.1 - PFAS

Date Received: 12/22/2020 Date Collected: 12/21/2020
Field ID: FB-010-0036-TP0 Submitted By: Holt Date Analyzed: 12/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12122120

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-6020-TP01 **Plant/Site Name:** Myersville-LC WTP **County:** Fred

Location: POE WTP **Sample Source:** All sources online (Street / Town or City)

Collector/ID: Holt 63237H **Phone No.:** 4104467432

010	0020	01000020	01	12/12/2020	930 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.5 **Free Cl:** 1.8 **Total Cl:** 2.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method **524.2** (Volatiles) ☐ ~~VOCs~~ ☐ THMs PFAS 537.1	☐ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate NO COLOR	
☐ EPA Method **8260** (VOCs)			

E21001632003
Received: 12/22/2020 EPA 537.1
Organics 010-0020-TP0

E21001632004
Received: 12/22/2020 EPA 537.1
Organics FB-010-0020-1

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/_____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001632003

Method: EPA 537.1 - PFAS

Date Received: 12/22/2020
Field ID: 010-0020-TP01

Date Collected: 12/21/2020
Submitted By: Holt

Date Analyzed: 12/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.73
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.42
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.45
Perfluorooctanoic acid (PFOA)	1.0		2.01
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001632004

Method: EPA 537.1 - PFAS

Date Received: 12/22/2020
Field ID: FB-010-0020-TP0

Date Collected: 12/21/2020
Submitted By: Holt

Date Analyzed: 12/22/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
12/22/2020

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0020-TP04 **Plant/Site Name:** Myersville - Deerwood **County:** FRED

Location: POE WTP **Sample Source:** 3 Wells active (Street) (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

010	0020	0100020	04	12/21/2020	1000 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.1 **Total Cl:** 1.8

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☒ EPA Method **524.2** (Volatiles) ☒ VOCs ☐ THMs PFAS 537.1	☒ Field Blank ☐ Trip Blank	☒ 1:1 HCL TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate no color	
☐ EPA Method **8260** (VOCs)			

E21001632005
Received: 12/22/2020 EPA 537.1
Organics 010-0020-TP0

E21001632006
Received: 12/22/2020 EPA 537.1
Organics FB-010-0020-1

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001632005 Method: EPA 537.1 - PFAS

Date Received: 12/22/2020 Date Collected: 12/21/2020
Field ID: 010-0020-TP04 Submitted By: Holt Date Analyzed: 12/23/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		5.20
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.49
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.53
Perfluorohexanoic acid (PFHxA)	1.0		6.27
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		7.45
Perfluorooctanoic acid (PFOA)	1.0		6.22
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001632006

Method: EPA 537.1 - PFAS

Date Received: 12/22/2020
Field ID: FB-010-0020-TP0

Date Collected: 12/21/2020
Submitted By: Holt

Date Analyzed: 12/23/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeba

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/22/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0020-TP03 **Plant/Site Name:** Myersville - Ashley SD **County:** FRED

Location: POE @ WTP **Sample Source:** Wells 1, 2, & 3 (Street / Town or City)

Collector/ID: HH 6323JH **Phone No.:** 4104467432

010	0020	0100020	03	12/21/2020	1045 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.0 **Free Cl:** 0.8 **Total Cl:** 1.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method **524.2** (Volatiles) ☐ ~~VOCs~~ ☐ THMs PFAS 537.1	☑ Field Blank ☐ Trip Blank	☐ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate NO COLOR	
☐ EPA Method **8260** (VOCs)			

E21001632007
Received: 12/22/2020 EPA 537.1
Organics 010-0020-TP0

E21001632008
Received: 12/22/2020 EPA 537.1
Organics FB-010-0020-1

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001632007

Method: EPA 537.1 - PFAS

Date Received: 12/22/2020
Field ID: 010-0020-TP03

Date Collected: 12/21/2020
Submitted By: Holt

Date Analyzed: 12/23/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		9.05
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.77
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.63
Perfluorohexanoic acid (PFHxA)	1.0		3.07
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		9.53
Perfluorooctanoic acid (PFOA)	1.0		5.72
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001632008

Method: EPA 537.1 - PFAS

Date Received: 12/22/2020
Field ID: FB-010-0020-TP0

Date Collected: 12/21/2020
Submitted By: Holt

Date Analyzed: 12/23/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca

Approval date: 12/30/2020

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Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
AF 12/23/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 022-0005-TP01 **Plant/Site Name:** Sharptown **County:** Wicomico

Location: tower **Sample Source:** 103 State St. (Street) Sharptown (Town or City)

Collector/ID: Beatty 0976WB **Phone No.:** 410 446 3952

022	0005	02200005	01	12/22/2020	830 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.5 **Free Cl:** 0.08 **Total Cl:** 0.18

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☑ Community
  - ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank ☐ Equipment Blnk	☑ TRizma No color sticker	

E21001644001
Received: 12/23/2020 EPA 537.1
Organics 022-0005-TP0

E21001644002
Received: 12/23/2020 EPA 537.1
Organics FB022-0005-T

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001644001

Method: EPA 537.1 - PFAS

Date Received: 12/23/2020
Field ID: 022-0005-TP01

Date Collected: 12/22/2020
Submitted By: Beatty

Date Analyzed: 12/23/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001644002 Method: EPA 537.1 - PFAS

Date Received: 12/23/2020 Date Collected: 12/22/2020
Field ID: FB022-0005-TP01 Submitted By: Beatty Date Analyzed: 12/23/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 12/30/2020

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/29/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0007-TP04 **Plant/Site Name:** Mount Airy Summit Ridge **County:** Carroll

Location: Plant **Sample Source:** 508 Bohn Rd (Street) Mount Airy (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0007	006 0007	TP 04	12/29/2020	745 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.4 **Free Cl:** 0.7 **Total Cl:** 0.8

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001654001
Received: 12/29/2020 EPA 537.1
Organics 006-0007-TP04

E21001654002
Received: 12/29/2020 EPA 537.1
Organics FB-006-0007-T

Remarks: Well 8 Sampled Well 10 offline

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654001

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: 006-0007-TP04
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654002

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: FB-006-0007-TP04
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.6 °C
RH 12129120

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0007-TP02 **Plant/Site Name:** Mount Airy Wells 5 & 6 **County:** Carroll

Location: Plant **Sample Source:** 301H West Watersville (Street) Mount Airy (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410 294 7884

006	0007	0060007	TP 02	12/29/2020	815 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.5 **Free Cl:** 1.4 **Total Cl:** 1.4

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001654003
Received: 12/29/2020 EPA 537.1
Organics 006-0007-TP02

E21001654004
Received: 12/29/2020 EPA 537.1
Organics FB-006-0007-T

Remarks: Wells 5 & 6 sampled

Lab Supervisor: _____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654003

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: 006-0007-TP02
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.25
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.30
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.88
Perfluorohexanoic acid (PFHxA)	1.0		3.90
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		5.07
Perfluorooctanoic acid (PFOA)	1.0		4.50
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654004

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: FB-006-0007-TP02
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/29/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0007-TP01 **Plant/Site Name:** Mount Airy Prospect West **County:** Carr. 11

Location: Plant **Sample Source:** 7056 Prospect Rd (Street) Mount Airy (Town or City)

Collector/ID: Shawn Lowman 0076SL **Phone No.:** 410 294-7884

006	0007	006007	TP 01	12/29/2020	840 (am)/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.5 **Free Cl:** 0.9 **Total Cl:** 1.1

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001654005
Received: 12/29/2020 EPA 537.1
Organics 006-0007-TP01

E21001654006
Received: 12/29/2020 EPA 537.1
Organics FB-006-0007-TI

Remarks: All wells combined

Lab Supervisor: _____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654005

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: 006-0007-TP01
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		7.61
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.01
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.50
Perfluorohexanoic acid (PFHxA)	1.0		4.47
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		7.47
Perfluorooctanoic acid (PFOA)	1.0		4.94
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654006

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: FB-006-0007-TP01
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/29/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0007-TP05 **Plant/Site Name:** Mount Airy Well 9 **County:** Carroll

Location: Plant **Sample Source:** N. Annapolis Drive (Street) Mount Airy (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0007	0060007	05 (TP)	12/29/2020	905 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.4 **Free Cl:** 1.1 **Total Cl:** 1.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001654007
Received: 12/29/2020 EPA 537.1
Organics 006-0007-TP05

E21001654008
Received: 12/29/2020 EPA 537.1
Organics FB-006-0007-TI

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654007

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: 006-0007-TP05
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.31
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		3.39
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		3.78
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654008

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: FB-006-0007-TP05
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
RH 12/29/20

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0007-TP03 **Plant/Site Name:** Mount Airy Wells 7 & 11 **County:** Carroll

Location: Plant **Sample Source:** 13026 Partridge Drive (Street) Mount Airy (Town or City)

Collector/ID: Shawn Lowman 0076 SL **Phone No.:** 410-294-7884

006	0007	0060007	TP 03	12/29/2020	930 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 **Free Cl:** 1.2 **Total Cl:** 1.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001654009
Received: 12/29/2020 EPA 537.1
Organics 006-0007-TP03

E21001654010
Received: 12/29/2020 EPA 537.1
Organics FB-006-0007-TI

Remarks: Both wells running at time of sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654009

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: 006-0007-TP03
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.08
Perfluorodecanoic acid (PFDA)	1.0		1.08
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		4.27
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		11.70
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.05
Perfluorooctanoic acid (PFOA)	1.0		9.10
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001654010

Method: EPA 537.1 - PFAS

Date Received: 12/29/2020
Date Collected: 12/29/2020
Field ID: FB-006-0007-TP03
Submitted By: Lowman
Date Analyzed: 12/30/2020

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C AT 01/06/21

PFAS

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 012-0009-01 **Plant/Site Name:** Town of Darlington **County:** Harford

Location: WTP POE tap **Sample Source:** Anderson Ave (Street), Darlington (Town or City)

Collector/ID: Lockingland GL 7810 **Phone No.:** 4104192709

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
12	0009	0120009	01	1/6/2021	0800 am/pm

Field Data: pH 6.7 **Free Cl:** 0.96 **Total Cl:** 0.96

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☒ Field Blank ☐ Equipment Blank	☒ TRIZMA (NO color code)	

E21001726001
Received: 01/06/2021 EPA 537.1
Organics 012-0009-01

E21001726002
Received: 01/06/2021 EPA 537.1
Organics FB-012-0009-(

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001726001

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 012-0009-01
Submitted By: Lookingland
Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.36
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.49
Perfluorohexanoic acid (PFHxA)	1.0		1.48
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		5.88
Perfluorooctanoic acid (PFOA)	1.0		2.91
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001726002

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: FB-012-0009-01
Submitted By: Lookingland
Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
AT 01/06/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP10 **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: WELL 7,9,10 **Sample Source:** _____ (Street) POOLESVILLE (Town or City)

Collector/ID: JOSEPH GAY 884/10 **Phone No.:** 4104467324

015	0002	01500002	TP10	1/6/2021	8:45 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 06.4 **Free Cl:** 1.4 **Total Cl:** 1.6

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELDBLANK	TRIS BASE TRIS HCL	

E21001729001
Received: 01/06/2021 EPA 537.1
Organics 015-0002-TP10

E21001729002
Received: 01/06/2021 EPA 537.1
Organics FB-015-0002-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/_____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729001

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 015-0002-TP10
Submitted By: Joseph Gay
Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.71
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		1.81
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		3.69
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729002

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FB-015-0002-TP10 Submitted By: Joseph Gay Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
AT 01106/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP03 **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: WELL 3 **Sample Source:** _____ (Street) POOLESVILLE (Town or City)

Collector/ID: JOSEPH GAY 984/JG **Phone No.:** 4104467324

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
015	0002	0150002	TP02	1/6/2021	9:00 am/pm

Field Data: pH 06.6 **Free Cl:** 0.8 **Total Cl:** 0.8

Sample Type:
- ☐ ~~Drinking water~~
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001729003
Received: 01/06/2021 EPA 537.1
Organics 015-0002-TP3

E21001729004
Received: 01/06/2021 EPA 537.1
Organics FB-015-0002-TF

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729003

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 015-0002-TP3
Submitted By: Joseph Gay
Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		8.86
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		5.21
Perfluorohexanesulfonic acid (PFHxS)	1.0		30.24
Perfluorohexanoic acid (PFHxA)	1.0		10.37
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		22.95
Perfluorooctanoic acid (PFOA)	1.0		15.29
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729004

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FB-015-0002-TP3 Submitted By: Joseph Gay Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
At 01/06/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP12 **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: BRIGHTWELL **Sample Source:** POOLESVILLE (Street / Town or City)

Collector/ID: JOSEPH GAY 8841G **Phone No.:** 4104467324

015	0002	015-0002	TP12	1/6/2021	9:15 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 06.6 **Free Cl:** 0.8 **Total Cl:** 0.8

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001729005
Received: 01/06/2021 EPA 537.1
Organics 015-0002-TP12

E21001729006
Received: 01/06/2021 EPA 537.1
Organics FB-015-0002-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729005

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 015-0002-TP12
Submitted By: Joseph Gay
Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.74
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		2.28
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.98
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

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State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729006

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FB-015-0002-TP12 Submitted By: Joseph Gay Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

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Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1° °C
AT 01/06/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP13 **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: STONEY SPRINGS **Sample Source:** POOLESVILLE (Street / Town or City)

Collector/ID: JOSEPH GAY 8841 JG **Phone No.:** 4104467324

015	0002	01500002	TP13	1/6/2021	9:45 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 06.9 **Free Cl:** 0.9 **Total Cl:** 1.0

Sample Type: ☒ ~~Drinking water~~ ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☑ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☐ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001729007
Received: 01/06/2021 EPA 537.1
Organics 015-0002-TP13

E21001729008
Received: 01/06/2021 EPA 537.1
Organics FB-015-0002-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729007

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 015-0002-TP13
Submitted By: Joseph Gay
Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.79
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		6.68
Perfluorohexanoic acid (PFHxA)	1.0		2.18
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		5.09
Perfluorooctanoic acid (PFOA)	1.0		3.39
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729008

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FB-015-0002-TP13 Submitted By: Joseph Gay Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
AT 01/06/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP05 **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: WELLS **Sample Source:** POOLESVILLE (Street / Town or City)

Collector/ID: JOSEPH GAY 8841 VG **Phone No.:** 4104467324

015	0002	015 0002	TP05	1/6/2021	9:25 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 1.0 **Total Cl:** 1.5

Sample Type: ☒ Drinking water ☐ Private ☒ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☒ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001729009
Received: 01/06/2021 EPA 537.1
Organics 015-0002-TP05

E21001729010
Received: 01/06/2021 EPA 537.1
Organics FB-015-0002-TI

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729009

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 015-0002-TP05
Submitted By: Joseph Gay
Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.53
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.16
Perfluorohexanoic acid (PFHxA)	1.0		2.56
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.64
Perfluorooctanoic acid (PFOA)	1.0		3.60
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729010

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FB-015-0002-TP05 Submitted By: Joseph Gay Date Analyzed: 01/08/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
AT 01/06/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP06 **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: WELL 6 **Sample Source:** POOLESVILLE (Street / Town or City)

Collector/ID: JOSEPH GAY 884/16 **Phone No.:** 4104467324

015	0002	015T0002	TP06	1/6/2021	9:15 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.0 **Free Cl:** 1.1 **Total Cl:** 1.2

Sample Type: ☒ ~~Drinking water~~ ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☒ Community ☐ Soil/Sediment ☒ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001729011
Received: 01/06/2021 EPA 537.1
Organics 015-0002-TP06

E21001729012
Received: 01/06/2021 EPA 537.1
Organics FB-015-0002-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729011

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 015-0002-TP06
Submitted By: Joseph Gay
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.57
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		2.49
Perfluorohexanoic acid (PFHxA)	1.0		2.75
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		4.44
Perfluorooctanoic acid (PFOA)	1.0		3.97
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729012

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: FB-015-0002-TP06
Submitted By: Joseph Gay
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
AT 1/06/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP08 **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: WELL 8 **Sample Source:** _____ (Street) POOLESVILLE (Town or City)

Collector/ID: JOSEPH GAY 8841JG **Phone No.:** 4104467324

015	0002	015T0002	TP08	1/6/2021	10:10 am
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 06.9 **Free Cl:** 1.2 **Total Cl:** 1.2

Sample Type: ☐ ~~Drinking water~~ ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001729013
Received: 01/06/2021 EPA 537.1
Organics 015-0002-TP08

E21001729014
Received: 01/06/2021 EPA 537.1
Organics FB-015-0002-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729013

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 015-0002-TP08
Submitted By: Joseph Gay
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		4.00
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		4.04
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.57
Perfluorohexanoic acid (PFHxA)	1.0		6.24
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		6.02
Perfluorooctanoic acid (PFOA)	1.0		5.35
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729014

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: FB-015-0002-TP08
Submitted By: Joseph Gay
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0 °C
AT 1/06/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP11 **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: WELL 11 **Sample Source:** POOLESVILLE (Street / Town or City)

Collector/ID: JOSEPH GAY 884/J6 **Phone No.:** 4104467324

015	0002	0150002	TP11	1/6/2021	10:20 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 8.70 **Free Cl:** 1.3 **Total Cl:** 1.9

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001729015
Received: 01/06/2021 EPA 537.1
Organics 015-002-TP11

E21001729016
Received: 01/06/2021 EPA 537.1
Organics FB-015-002-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729015

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021
Date Collected: 01/06/2021
Field ID: 015-002-TP11
Submitted By: Joseph Gay
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001729016

Method: EPA 537.1 - PFAS

Date Received: 01/06/2021 Date Collected: 01/06/2021
Field ID: FB-015-002-TP11 Submitted By: Joseph Gay Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1 °C
e 1/8/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 011-0002-TP01 **Plant/Site Name:** Bloomington **County:** Garrett

Location: POE [redacted] WTP **Sample Source:** New WTP in 2021
Street Town or City

Collector/ID: Holt 6523JH **Phone No.:** 4104467432

011	0002	01 1 0002	01	1/7/2021	800 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 **Free Cl:** 2.1 **Total Cl:** 2.1

Sample Type: ☑ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☐ Community ☐ Soil/Sediment ☐ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method **524.2** (Volatiles) ☐ ~~VOCs~~ ☐ THMs PFAS 531.7	☑ Field Blank ☐ Trip Blank BLUE.	~~☐ HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001749001
Received: 01/08/2021 EPA 537.1
Organics 0110002TP01

E21001749002
Received: 01/08/2021 EPA 537.1
Organics 0110002TP01FB

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIV

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001749001

Method: EPA 537.1 - PFAS

Date Received: 01/08/2021
Date Collected: 01/07/2021
Field ID: 0110002TP01
Submitted By: HOLT
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001749002

Method: EPA 537.1 - PFAS

Date Received: 01/08/2021
Date Collected: 01/07/2021
Field ID: 0110002TP01FB
Submitted By: HOLT
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1 °C
0 1/8/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 011-0008-TP01 **Plant/Site Name:** Oakland - Broadford **County:** Garrett

Location: POEC WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: HoH 63230H **Phone No.:** 4104467482

011	0008	01100008	01	1/7/2021	900 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.3 **Total Cl:** 1.7

Sample Type: ☑ ~~Drinking water~~ ☐ Landfill ☐ Source (water) ☐ Oil
☐ ~~Private~~ ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ ~~Community~~ ☐ Soil/Sediment ☑ ~~Water Treatment Plant POE~~ ☐ Other _____
☐ Non-Community

Specify Program: ☑ ~~SDWA~~ ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method **524.2** (Volatiles) ☐ ~~VOCs~~ ☐ THMs PFAS 537.7	☐ ~~Field Blank~~ ☐ Trip Blank BLUE	☐ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001749003
Received: 01/08/2021 EPA 537.1
Organics 0110008TP01

E21001749004
Received: 01/08/2021 EPA 537.1
Organics 0110008TP01FB

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001749003

Method: EPA 537.1 - PFAS

Date Received: 01/08/2021
Date Collected: 01/07/2021
Field ID: 0110008TP01
Submitted By: HOLT
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001749004

Method: EPA 537.1 - PFAS

Date Received: 01/08/2021
Date Collected: 01/07/2021
Field ID: 0110008TP01FB
Submitted By: HOLT
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1 °C
@ 1/8/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 011-0001-TP01 **Plant/Site Name:** Accident **County:** Garrett

Location: POE@South St. WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323JH **Phone No.:** 4104467432

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
011	0001	0110001	01	1/7/2021	1030 am/pm

Field Data: pH 6.7 **Free Cl:** 1.3 **Total Cl:** 1.7

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method **524.2** (Volatiles) ☑ VOCs ☐ THMs PFAS 537.1	☑ Field Blank ☐ Trip Blank BLUE LABEL	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001749005
Received: 01/08/2021 EPA 537.1
Organics 0110001TP01

E21001749006
Received: 01/08/2021 EPA 537.1
Organics 0110001TP01FB

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001749005

Method: EPA 537.1 - PFAS

Date Received: 01/08/2021
Date Collected: 01/07/2021
Field ID: 0110001TP01
Submitted By: HOLT
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.33
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001749006

Method: EPA 537.1 - PFAS

Date Received: 01/08/2021
Date Collected: 01/07/2021
Field ID: 0110001TP01FB
Submitted By: HOLT
Date Analyzed: 01/13/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/15/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
1/11/21 RH

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0017-TP01W2 **Plant/Site Name:** Wakefield Valley Well 2 **County:** Carroll

Location: Plant **Sample Source:** Old New Windsor Rd (Street) Westminster (Town or City)

Collector/ID: Shawn Lowman 0076SL **Phone No.:** 410-294-7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0017	0060017	TP 01	1/11/2021	905 am/pm

Field Data: pH 7.5 **Free Cl:** 2.2 **Total Cl:** 2.3

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma Yellow	

E21001756001
Received: 01/11/2021 EPA 537.1
Organics 006-0017-TP01

E21001756002
Received: 01/11/2021 EPA 537.1
Organics FB-006-0017-TI

Remarks: Well 2 Running at time of Sample

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001756001

Method: EPA 537.1 - PFAS

Date Received: 01/11/2021
Date Collected: 01/11/2021
Field ID: 006-0017-TP01
Submitted By: Lowman
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		3.80
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.01
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.45
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/19/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001756002

Method: EPA 537.1 - PFAS

Date Received: 01/11/2021
Date Collected: 01/11/2021
Field ID: FB-006-0017-TP01
Submitted By: Lowman
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/19/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.6 °C
1/11/21 RH

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0215-TP01 **Plant/Site Name:** Sullivans Trailer Court **County:** Carroll

Location: Plant **Sample Source:** 2205 Old Westminster Pk (Street) Finksburg (Town or City)

Collector/ID: Shawn Lowman 00765L **Phone No.:** 410-294-7884

006	0215	0060215	TP 01	1/11/2021	950 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 1.1 **Total Cl:** 1.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001756003
Received: 01/11/2021 EPA 537.1
Organics 006-0215-TP01

E21001756004
Received: 01/11/2021 EPA 537.1
Organics FB-006-0215-TP

Remarks:

Lab Supervisor: **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001756003

Method: EPA 537.1 - PFAS

Date Received: 01/11/2021
Date Collected: 01/11/2021
Field ID: 006-0215-TP01
Submitted By: Lowman
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.93
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.00
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.48
Perfluorohexanoic acid (PFHxA)	1.0		3.64
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		4.95
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/19/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001756004

Method: EPA 537.1 - PFAS

Date Received: 01/11/2021
Date Collected: 01/11/2021
Field ID: FB-006-0215-TP01
Submitted By: Lowman
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/19/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 1/12/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-0011-TP01 **Plant/Site Name:** FROSTBURG **County:** Allegany

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323)H **Phone No.:** 4104467432

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
001	0011	0010011	01	1/11/2021	1300 am/pm

Field Data: pH 7.0 **Free Cl:** 0.8 **Total Cl:** 1.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ VOCs ☐ THMs PFAS	☑ Field Blank ☐ Trip Blank BLUE LABEL	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001768001
Received: 01/12/2021 EPA 537.1
Organics 0010011TP01

E21001768002
Received: 01/12/2021 EPA 537.1
Organics 0010011TP01F

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001768001

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/11/2021
Field ID: 0010011TP01
Submitted By: Holt
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/19/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001768002

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/11/2021
Field ID: 0010011TP01FB
Submitted By: Holt
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/19/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 1/12/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-0033-TP02 **Plant/Site Name:** Westernport **County:** Allegany

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 63233H **Phone No.:** _____

0 0 1	0 0 3 3	0 0 1 0 0 3 3	0 2	1 / 11 /2021	1100 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.7 **Free Cl:** 0.8 **Total Cl:** 1.1

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☒ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ THMs PFAS	☒ Field Blank ☐ Trip Blank BLUE LABEL	☐ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001768003
Received: 01/12/2021 EPA 537.1
Organics 0010033TP02

E21001768004
Received: 01/12/2021 EPA 537.1
Organics 0010033TP02F

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001768003

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/11/2021
Field ID: 0010033TP02
Submitted By: Holt
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza

Approval date: 01/19/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001768004

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/11/2021
Field ID: 0010033TP02FB
Submitted By: Holt
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneea

Approval date: 01/19/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 1/12/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007.0029-TP01 **Plant/Site Name:** TOWN OF CHARLESTOWN **County:** CECIL

Location: WELL 1/2 **Sample Source:** (Street) (Town or City) CHARLESTOWN

Collector/ID: JOSEPH GAY 8841JG **Phone No.:** 4104467324

007	0029	0070029	TP01	1/12/2021	9:25 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.7 **Free Cl:** 1.1 **Total Cl:** 1.5

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☒ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001769001
Received: 01/12/2021 EPA 537.1
Organics 0070029TP01

E21001769002
Received: 01/12/2021 EPA 537.1
Organics FB0070029TP0

Remarks:

Lab Supervisor: **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001769001

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/12/2021
Field ID: 0070029TP01
Submitted By: Joseph Gay
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.69
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.06
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001769002

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/12/2021
Field ID: FB0070029TP01
Submitted By: Joseph Gay
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY/12/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0209-TP01 **Plant/Site Name:** BENJ. VIL. / HOMESTEAD **County:** CECIL

Location: BENJ, 142/HOME2, 3, 4 **Sample Source:** _____ (Street) PORT DEPOSIT (Town or City)

Collector/ID: JOSEPH GAY 8841 JG **Phone No.:** 4104407324

007	0209	0070209	TP01	1/12/2021	8:25 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 05.6 **Free Cl:** 0.1 **Total Cl:** 0.2

Sample Type:
- ☐ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ ~~EPA Method 8260 (VOCs)~~ 537.1 PFAS	FIELD BLANK	TRIS BASE TRIS HCL	

E21001769003
Received: 01/12/2021 EPA 537.1
Organics 0070209TP01

E21001769004
Received: 01/12/2021 EPA 537.1
Organics FB0070209TP0

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001769003

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Field ID: 0070209TP01
Date Collected: 01/12/2021
Submitted By: Joseph Gay
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		14.20
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.37
Perfluorohexanesulfonic acid (PFHxS)	1.0		61.49
Perfluorohexanoic acid (PFHxA)	1.0		11.84
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.84
Perfluorooctanoic acid (PFOA)	1.0		5.23
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001769004

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/12/2021
Field ID: FB0070209TP01
Submitted By: Joseph Gay
Date Analyzed: 01/14/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 1/12/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 007-0223-TP01 **Plant/Site Name:** MAPLE HILL MOBILE **County:** CECIL

Location: _____ **Sample Source:** _____ Street PORT DEPOSIT Town or City

Collector ID: JOSEPH GAY 8841 J6 **Phone No.:** 4104467324

007	0223	0070223	TP01	1/12/2021	8:45 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 06.0 **Free Cl:** 0.1 **Total Cl:** 0.1

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001769005
Received: 01/12/2021 EPA 537.1
Organics 0070223TP01

E21001769006
Received: 01/12/2021 EPA 537.1
Organics FB0070223TP0

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001769005

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/12/2021
Field ID: 0070223TP01
Submitted By: Joseph Gay
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.65
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.58
Perfluorohexanoic acid (PFHxA)	1.0		2.17
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.96
Perfluorooctanoic acid (PFOA)	1.0		4.85
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001769006

Method: EPA 537.1 - PFAS

Date Received: 01/12/2021
Date Collected: 01/12/2021
Field ID: FB0070223TP01
Submitted By: Joseph Gay
Date Analyzed: 01/19/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
AF 1/13/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0001-TP01 **Plant/Site Name:** Highfield - Cascade Well 1 **County:** Washington

Location: POE@ Cascade WTP **Sample Source:** Well 2 (Willard) abandoned/disassembled 5 years ago
Street Town or City

Collector/ID: Holt 6723 DH **Phone No.:** 4104467452

021	0001	021 0001	01	1/12/2021	1020 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.7 **Total Cl:** 2.1

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAs ☐ THMs	☑ Field Blank ☐ Trip Blank Blue label	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001776001
Received: 01/13/2021 EPA 537.1
Organics 0210001TP01

E21001776002
Received: 01/13/2021 EPA 537.1
Organics FB0210001TP0

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001776001

Method: EPA 537.1 - PFAS

Date Received: 01/13/2021
Field ID: 0210001TP01
Date Collected: 01/12/2021
Submitted By: Holt
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.18
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.00
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		3.06
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001776002

Method: EPA 537.1 - PFAS

Date Received: 01/13/2021
Date Collected: 01/12/2021
Field ID: FB0210001TP01
Submitted By: Holt
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
AF 1/13/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0001-TP02 **Plant/Site Name:** Highfield - Well 3 **County:** Wash

Location: POE @ Well 3 WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

021	0001	021 0001	02	1/12/2021	1100 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH ~~6.6~~ **Free Cl:** 1.4 **Total Cl:** 1.9

Sample Type: ☒ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☒ Community ☐ Soil/Sediment ☒ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☒ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☒ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☒ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☒ ~~VOCs~~ PFAS ☐ THMs	☒ Field Blank ☐ Trip Blank Blue label	☐ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001776003
Received: 01/13/2021 EPA 537.1
Organics 0210001TP02

E21001776004
Received: 01/13/2021 EPA 537.1
Organics FB0210001TP0

Remarks: _____

Lab Supervisor: _____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001776003

Method: EPA 537.1 - PFAS

Date Received: 01/13/2021
Date Collected: 01/12/2021
Field ID: 0210001TP02
Submitted By: Holt
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		1.55
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		2.46
Perfluorooctanoic acid (PFOA)	1.0		1.02
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001776004

Method: EPA 537.1 - PFAS

Date Received: 01/13/2021
Date Collected: 01/12/2021
Field ID: FB0210001TP02
Submitted By: Holt
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2.0 °C
AF 1/13/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 021-0001-TP03 **Plant/Site Name:** Highfield-Pennersville **County:** Wash

Location: POE @ well 4 WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467482

021	0001	0210061	03	1/12/2021	1120 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 1.3 **Total Cl:** 1.5

Sample Type:
- ☒ ~~Drinking water~~
- ☐ Private
- ☒ ~~Community~~
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☐ ~~Water Treatment Plant POE~~
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☐ ~~SDWA~~ ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☒ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.4** (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☐ ~~EPA Method **524.2** (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ THMs PFAS	☒ ~~Field Blank~~ ☐ Trip Blank Blue label	☒ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)	☐ Field Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid	

E21001776006
Received: 01/13/2021 EPA 537.1
Organics FB021-0001-TF

E21001776005
Received: 01/13/2021 EPA 537.1
Organics 021-0001-TP03

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY SAMPLE TESTED AS RECEIVED

DHMH98 (05/15)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001776005

Method: EPA 537.1 - PFAS

Date Received: 01/13/2021
Date Collected: 01/12/2021
Field ID: 021-0001-TP03
Submitted By: Holt
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001776006

Method: EPA 537.1 - PFAS

Date Received: 01/13/2021
Date Collected: 01/12/2021
Field ID: FB021-0001-TP03
Submitted By: Holt
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

1 copy

Temperature Blank: 3.5 °C
AF 1/15/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 1231051-TP01 **Plant/Site Name:** Bayside Village **County:** Wor

Location: Outside Tap (POE) **Sample Source:** 12704 Old Br. Rd (Street) OC (Town or City)

Collector/ID: K Bassett **Phone No.:** 410-868-4226

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
123		1231051 TP	01	1/14/2021	10:00 am/pm

Field Data: pH 7.0 **Free Cl:** _____ **Total Cl:** _____

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☐ Community
  - ☑ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other no Batch color

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.4** (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	☑ Field Blank	☑ ~~1:1 HCL~~ Trizma ☐ 1:1 HCL + Ascorbic acid	

E21001809001
Received: 01/15/2021 EPA 537.1
Organics 1231051TP01

E21001809002
Received: 01/15/2021 EPA 537.1
Organics FB1231051TP01

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

DHMH98 (05/15)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001809001

Method: EPA 537.1 - PFAS

Date Received: 01/15/2021
Date Collected: 01/14/2021
Field ID: 1231051TP01
Submitted By: K Bassett
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
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ORGANICS ANALYTICAL LABORATORY
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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001809002

Method: EPA 537.1 - PFAS

Date Received: 01/15/2021
Date Collected: 01/14/2021
Field ID: FB1231051TP01
Submitted By: K Bassett
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2 °C
on 1/14/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0017-TP01W1 **Plant/Site Name:** Wakefield Valley Well 1 **County:** Carroll

Location: Plant **Sample Source:** Old New Windsor Rd (Street) Westminster (Town or City)

Collector/ID: Shawn Lawman 00765L **Phone No.:** 410-244-7884

006	0017	0060017	TP 01	1/14/2021	845 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.6 **Free Cl:** 2.0 **Total Cl:** 2.4

Sample Type:
- ☑ Drinking water
  - ☐ Private
  - ☑ Community
  - ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 5371 PFAS	☑ Field Blank	☑ Trizma	

E21001801001
Received: 01/14/2021 EPA 537.1
Organics 0060017TP01\

E21001801002
Received: 01/14/2021 EPA 537.1
Organics 0060017TP01\ PB

Remarks:

Lab Supervisor: **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001801001

Method: EPA 537.1 - PFAS

Date Received: 01/14/2021
Date Collected: 01/14/2021
Field ID: 0060017TP01W1
Submitted By: SHAWN LAWMAN
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.87
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.04
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuseen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001801002

Method: EPA 537.1 - PFAS

Date Received: 01/14/2021
Date Collected: 01/14/2021
Field ID: 0060017TP01W1FB
Submitted By: SHAWN LAWMAN
Date Analyzed: 01/20/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/25/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
1/20/21 RH

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0010-TP01 **Plant/Site Name:** [illegible] **County:** FRED

Location: POE - WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: H&H 6327 SH **Phone No.:** 4104467432

0 1 0	0 0 1 0	0 1 0 0 0 1 0	0 1	1/19/2021	1000 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.7 **Free Cl:** 1.0 **Total Cl:** 1.3

Sample Type: ☑ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☐ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.4** (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ THMs PFAS	☑ Field Blank ☐ Trip Blank Blue label	☑ ~~1:1 HCL~~ MeOH ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)	☐ Field Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid	

E21001832001
Received: 01/20/2021 EPA 537.1
Organics S1 010-0010-TP01

E21001832002
Received: 01/20/2021 EPA 537 1
Organics B1 010-0010-TP01-

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

DHMH98 (05/15)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001832001 Method: EPA 537.1 - PFAS

Date Received: 01/20/2021 Date Collected: 01/19/2021
Field ID: 010-0010-TP01 Submitted By: Holt Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001832002

Method: EPA 537.1 - PFAS

Date Received: 01/20/2021
Field ID: 010-0010-TP01-FB

Date Collected: 01/19/2021
Submitted By: Holt

Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Temperature Blank: 3.0 °C

Send Report to:

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
1/20/21 RH

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 010-0015-TP03 **Plant/Site Name:** Frederick Lake Ridge **County:** FRED

Location: POE @ LR Dingle WTP **Sample Source:** Street / Town or City

Collector/ID: Hdt 6323JH **Phone No.:** 4104461432

010	0015	0100015	03	1/19/2021	1215 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.9 **Free Cl:** 1.8 **Total Cl:** 2.1

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ☐ Other

Specify Program: ☐ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method 504.1 (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.3 (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method 515.4 (Herbicides)	☐ Field Blank	☐ Sodium sulfite	
☐ EPA Method 525.2 (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method 531.2 (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors	☐ Field Blank	☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCS~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank Blue label	☑ ~~1:1 HCL~~ Trizma ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)	☐ Field Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid	

E21001832003
Received: 01/20/2021 EPA 537.1
Organics S2 010-0015-TP03

E21001832004
Received: 01/20/2021 EPA 537.1
Organics B2 010-0015-TP03

Remarks:

Lab Supervisor: **Date Reported:** / /

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001832003 Method: EPA 537.1 - PFAS

Date Received: 01/20/2021 Date Collected: 01/19/2021
Field ID: 010-0015-TP03 Submitted By: Holt Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001832004

Method: EPA 537.1 - PFAS

Date Received: 01/20/2021
Field ID: 010-0015-TP03-FE

Date Collected: 01/19/2021
Submitted By: Holt

Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KB 1/21/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-RW14-W36 **Plant/Site Name:** Hampstead Well 36 Raw **County:** Carroll

Location: Plant **Sample Source:** 1960 Upper Beckleysville Rd (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 007651 **Phone No.:** 410-244-7884

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
006	0003	0060003	14	1/21/2021	8:10 (am/pm)

Field Data: pH 5.9 **Free Cl:** 0.0 **Total Cl:** 0.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☑ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~**8260 (VOCs)**~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001851001
Received: 01/21/2021 EPA 537.1
Organics 51 006-0003-RW14

E21001851002
Received: 01/21/2021 EPA 537.1
Organics B1 FB006-0003-RW

Remarks:

Lab Supervisor: **Date Reported:** / /

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001851001

Method: EPA 537.1 - PFAS

Date Received: 01/21/2021
Field ID: 006-0003-RW14-\

Date Collected: 01/21/2021
Submitted By: Shawn Lowman

Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		2.40
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		2.64
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.07
Perfluorohexanoic acid (PFHxA)	1.0		4.39
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		4.51
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen

Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001851002

Method: EPA 537.1 - PFAS

Date Received: 01/21/2021
Field ID: FB006-0003-RW1

Date Collected: 01/21/2021
Submitted By: Shawn Lowman

Date Analyzed: 01/25/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen

Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
KS 1/21/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-TP14 **Plant/Site Name:** Hampstead Standpipe Well 3 S **County:** Carroll

Location: Plant **Sample Source:** 1960 Upper Beaver Dam Rd (Street) Hampstead (Town or City)

Collector/ID: Shawn Lawrence 10765L **Phone No.:** 410-294-7881

006	0003	006003	14	1/21/2021	535 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.3 **Free Cl:** 1.2 **Total Cl:** 1.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001851003
Received: 01/21/2021 EPA 537.1
Organics S3 006-0003-TP14

E21001851004
Received: 01/21/2021 EPA 537.1
Organics B3 FB006-0003-TP

Remarks: _____

Lab Supervisor: _____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001851003 Method: EPA 537.1 - PFAS

Date Received: 01/21/2021 Date Collected: 01/21/2021
Field ID: 006-0003-TP14 Submitted By: Shawn Lowman Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		1.01
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		1.29
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001851004 Method: EPA 537.1 - PFAS

Date Received: 01/21/2021 Date Collected: 01/21/2021
Field ID: FB006-0003-TP14 Submitted By: Shawn Lowman Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munawar Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 0.0 °C
K3 1/21/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 006-0003-RW14-W33 **Plant/Site Name:** Hampstead Well 33 Raw **County:** Carroll

Location: Plant **Sample Source:** 1960 Upper Beaver Dam Rd (Street) Hampstead (Town or City)

Collector/ID: Shawn Lowman 007652 **Phone No.:** 410-294-7884

006	0003	006003	14	1/21/2021	845 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.0 **Free Cl:** 0.0 **Total Cl:** 0.0

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☑ Source (water)
- ☐ Distribution (treated)
- ☐ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☑ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☑ Field Blank	☑ Trizma	

E21001851005
Received: 01/21/2021 EPA 537.1
Organics 52 006-0003-RW14

E21001851006
Received: 01/21/2021 EPA 537.1
Organics 132 FB006-0003-RW

Remarks:

Lab Supervisor: **Date Reported:** / /

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001851005 Method: EPA 537.1 - PFAS

Date Received: 01/21/2021 Date Collected: 01/21/2021
Field ID: 006-0003-RW14-\ Submitted By: Shawn Lowman Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001851006 Method: EPA 537.1 - PFAS

Date Received: 01/21/2021 Date Collected: 01/21/2021
Field ID: FB006-0003-RW1 Submitted By: Shawn Lowman Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
KB 1/21/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002 TP03R **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: WELL 3 RAW **Sample Source:** _____ (Street) POOLESVILLE (Town or City)

Collector/ID# JOSEPHGAY 8841 VG **Phone No.:** 4104467324

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
015	0002	0150002	TP03R	1/21/2021	9:25 am/pm

Field Data: pH 6.5 **Free Cl:** 0.1 **Total Cl:** 0.1

Sample Type: ☑ Drinking water ☐ Landfill ☑ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☐ Community ☐ Soil/Sediment ☐ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCl ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~8260 (VOCs)~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCl	

E21001858001
Received: 01/21/2021 EPA 537.1
Organics 015-0002-TP03I
SS

E21001858002
Received: 01/21/2021 EPA 537.1
Organics FB015-0002-TP
BB

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001858001

Method: EPA 537.1 - PFAS

Date Received: 01/21/2021
Field ID: 015-0002-TP03R

Date Collected: 01/21/2021
Submitted By: Joseph Gay

Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		7.17
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		3.81
Perfluorohexanesulfonic acid (PFHxS)	1.0		17.21
Perfluorohexanoic acid (PFHxA)	1.0		7.46
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		13.63
Perfluorooctanoic acid (PFOA)	1.0		10.63
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneer

Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001858002 Method: EPA 537.1 - PFAS

Date Received: 01/21/2021 Date Collected: 01/21/2021
Field ID: FB015-0002-TP03 Submitted By: Joseph Gay Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
KB 1/21/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 015-0002-TP03T **Plant/Site Name:** TOWN OF POOLESVILLE **County:** MONT

Location: WELL 3 TREATED **Sample Source:** _____ (Street) POOLESVILL (Town or City)

Collector/ID: JOSEPH GAY 8841 16 **Phone No.:** 4104467732

015	0002	015 0002	TP 03T	1/21/2021	9:35 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.6 **Free Cl:** 0.7 **Total Cl:** 0.7

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method ~~**8260 (VOCs)**~~ PFAS 537.1	FIELD BLANK	TRIS BASE TRIS HCL	

E21001858003
Received: 01/21/2021 EPA 537.1
Organics 015-0002-TP03
SA

E21001858004
Received: 01/21/2021 EPA 537.1
Organics FB015-0002-TP
BA

Remarks: LARGE AMOUNT OF AIR IN SAMPLE TAP

Lab Supervisor: _____ **Date Reported:** ____/____/____

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001858003 Method: EPA 537.1 - PFAS

Date Received: 01/21/2021 Date Collected: 01/21/2021
Field ID: 015-0002-TP03T Submitted By: Joseph Gay Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		7.06
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		4.08
Perfluorohexanesulfonic acid (PFHxS)	1.0		18.84
Perfluorohexanoic acid (PFHxA)	1.0		7.23
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		14.45
Perfluorooctanoic acid (PFOA)	1.0		10.97
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001858004 Method: EPA 537.1 - PFAS

Date Received: 01/21/2021 Date Collected: 01/21/2021
Field ID: FB015-0002-TP03 Submitted By: Joseph Gay Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nunez Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Temperature Blank: ___ °C
6 1/22/21

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Please write legibly

Bottle No.: 011-0230-N01 Plant/Site Name: Meadow Mtn Boys Camp County: Garrett

Location: POE@ WTP Sample Source: ___ Street ___ Town or City

Collector/ID: J. Hill 6323D Phone No.: 4104467432

0	1	1		0	2	3	0		0	1	1	0	2	3	0		0	1

County / System No. / PWSID / Plant No. — Date Collected: 1/21/2021 — Time Collected: 1130 (am/pm)

Free Cl: 1.3 Total Cl: 1.4

Field Data: pH 7.5

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid ___ ☐ Other ___

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other ___

Test Requested	Field & Trip Blank	Preservative Used	Comment
☑ EPA Method 504.1 (EDB/DBCP)	☑ Field Blank	☑ Sodium thiosulfate	
☐ EPA Method 508 (Aroclors (SCAN only) & Toxaphene)	☐ Field Blank	☐ Sodium thiosulfate	
☑ EPA Method 515.3 (Herbicides)	☐ Field Blank	☑ Sodium thiosulfate	
☑ EPA Method 525.2 (Pesticides)	☐ Field Blank	☑ HCL (6N) ☑ Sodium sulfite	
☑ EPA Method 531.2 (Carbamates)	☐ Field Blank	☑ Potassium Citrate monobasic ☑ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride ☐ Sodium thiosulfate	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors			
☑ EPA Method 524.2 (Volatiles) 537.1 ☑ VOCs ☐ THMs PFAS	☑ Field Blank ☐ Trip Blank Green FB Yellow Samp	☑ HCL 1612N4 ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)			

E21001866001 Received: 01/22/2021 EPA 504.1 Pesticides 0110230TP01

E21001866002 Received: 01/22/2021 EPA 504.1 Pesticides 0110230TP01FE

E21001866003 Received: 01/22/2021 EPA 515.3 Pesticides 0110230TP01

E21001866004 Received: 01/22/2021 EPA 525.2 Pesticides 0110230TP01

E21001866005 Received: 01/22/2021 EPA 531.2 Pesticides 0110230TP01

E21001867001 Received: 01/22/2021 EPA 537.1 Organics SS 0110230TP01

E21001867002 Received: 01/22/2021 EPA 537.1 Organics BS 0110230TP01FE

Remarks: ___

Date Reported: ___/___/___

Lab Supervisor: ___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

SAMPLE TESTED AS RECEIVED

MDH 98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001867001 Method: EPA 537.1 - PFAS

Date Received: 01/22/2021 Date Collected: 01/21/2021
Field ID: 0110230TP01 Submitted By: HOLT Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001867002 Method: EPA 537.1 - PFAS

Date Received: 01/22/2021 Date Collected: 01/21/2021
Field ID: 0110230TP01FB Submitted By: HOLT Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureeva Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 2 °C
e 1/22/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 011-0204-TP01 **Plant/Site Name:** Backbone Mtn Camp **County:** Garrett

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323 JH **Phone No.:** 4104467432

011	0204	011020	01	1/21/2021	1500 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.2 **Free Cl:** 1.4 **Total Cl:** 1.5

Sample Type: ☑ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☐ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method 524.2 (Volatiles) 537.1 ☐ VOCs ☐ THMs PFAS	☐ Field Blank ☐ Trip Blank Blue	☐ 1:1 HCL NH4Cl ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001867003
Received: 01/22/2021 EPA 537.1
Organics 86 0110204TP01

E21001867004
Received: 01/22/2021 EPA 537.1
Organics 86 0110204TP01FB

Remarks: _____

Lab Supervisor: _____ **Date Reported:** __/__/__

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

SAMPLE TESTED AS RECEIVED

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001867003 Method: EPA 537.1 - PFAS

Date Received: 01/22/2021 Date Collected: 01/21/2021
Field ID: 0110204TP01 Submitted By: HOLT Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneza Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001867004 Method: EPA 537.1 - PFAS

Date Received: 01/22/2021 Date Collected: 01/21/2021
Field ID: 0110204TP01FB Submitted By: HOLT Date Analyzed: 01/23/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mirecca Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 4.0 °C
TY 1/25/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 011-0008-TP02 **Plant/Site Name:** Oakland-Bradley Ln **County:** Garrett

Location: POEC WTP **Sample Source:** Youghiogheny (Street) River (Town or City)

Collector/ID: Holt 6323JH **Phone No.:** 4104467432

011	0008	01100008	02	1/21/2021	1400 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 1.2 **Total Cl:** 1.4

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank BLUE	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001872001
Received: 01/25/2021 EPA 537.1
Organics 0110008TP02
S4

E21001872002
Received: 01/25/2021 EPA 537.1
Organics FB0110008TP02
B4

Remarks:

Lab Supervisor: **Date Reported:** / /

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001872001 Method: EPA 537.1 - PFAS

Date Received: 01/25/2021 Date Collected: 01/21/2021
Field ID: 0110008TP02 Submitted By: Holt Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munecan Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001872002

Method: EPA 537.1 - PFAS

Date Received: 01/25/2021
Field ID: FB0110008TP02

Date Collected: 01/21/2021
Submitted By: Holt

Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munee

Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
JY 1/26/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 014-0001-TP01 **Plant/Site Name:** Town of Betterton **County:** Kent

Location: WTP Sample tap **Sample Source:** Church Alley (Street) Betterton (Town or City)

Collector/ID: Hiner /0982SH **Phone No.:** 443-326-6449

014	0001	0140001	01	1/21/2021	9:10 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.07 **Free Cl:** 1.67 **Total Cl:** 1.76

Sample Type:
- ☒ Drinking water
- ☐ Private
- ☒ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☒ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid
- ☐ Other

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☐ EPA Method **524.2** (Volatiles) ☐ VOCS ☐ THMs	☐ Field Blank ☐ Trip Blank	☐ 1:1 HCL ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☒ EPA Method ~~8260 (VOCs)~~ 537.1 PFAS	☒ Field Blank	☒ Trizma Batch Color - Blue	

E21001874001
Received: 01/25/2021 EPA 537.1
Organics SS 0140001TP01

E21001874002
Received: 01/25/2021 EPA 537.1
Organics BS FB0140001TP01

Remarks:

Lab Supervisor: **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001874001

Method: EPA 537.1 - PFAS

Date Received: 01/25/2021
Field ID: 0140001TP01

Date Collected: 01/21/2021
Submitted By: Hiner

Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munecan

Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001874002 Method: EPA 537.1 - PFAS

Date Received: 01/25/2021 Date Collected: 01/21/2021
Field ID: FB0140001TP01 Submitted By: Hiner Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 4.0 °C
JY 1/25/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 011-0013-TP02 **Plant/Site Name:** Kitzmiller **County:** Garrett

Location: POE WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: HdT 6823DH **Phone No.:** 4104467432

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
011	0013	0110013	02	1/21/2021	1230 (Military)

Field Data: pH 8.5 Free Cl: 2.2 Total Cl: 2.6

Sample Type: ☒ Drinking water ☐ Private ☒ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☒ Distribution (treated) ☒ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☒ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☒ EPA Method 504.1 (EDB/DBCP)	☒ Field Blank	☒ Sodium thiosulfate	
☐ EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☒ EPA Method 515.3 (Herbicides)	☐ Field Blank	☒ Sodium thiosulfate	
☒ EPA Method 525.2 (Pesticides)	☐ Field Blank	☒ HCL (6N) ☐ Sodium sulfite	
☒ EPA Method 531.2 (Carbamates)	☐ Field Blank	☒ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method 552.2 (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method 8270 (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☒ EPA Method 524.2 (Volatiles) ☐ VOCs ☐ THMs 5321 PPAS	☒ Field Blank ☐ Trip Blank GREEN-FB	☒ 1:1 HCL TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method 8260 (VOCs)	Yellow-Samp		

E21001871001
Received: 01/25/2021 EPA 504.1
Pesticides 0110013TP02

E21001871002
Received: 01/25/2021 EPA 504.1
Pesticides FB0110013TP02

E21001871003
Received: 01/25/2021 EPA 515.3
Pesticides 0110013TP02

E21001871004
Received: 01/25/2021 EPA 525.2
Pesticides 0110013TP02

E21001871005
Received: 01/25/2021 EPA 531.2
Pesticides 0110013TP02

E21001876001
Received: 01/25/2021 EPA 637.1
Organics 0110013TP02
56

E21001876002
Received: 01/25/2021 EPA 637.1
Organics 0110013TP02
56

Remarks: _____

Lab Supervisor: _____ **Date Reported:** ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507

ORIGINAL - LABORATORY

MDH98 (02/18)

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001876001 Method: EPA 537.1 - PFAS

Date Received: 01/25/2021 Date Collected: 01/21/2021
Field ID: 0110013TP02 Submitted By: Holt Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001876002 Method: EPA 537.1 - PFAS

Date Received: 01/25/2021 Date Collected: 01/21/2021
Field ID: 0110013TP02 Submitted By: Holt Date Analyzed: 01/26/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneca Approval date: 01/27/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
AF 1/28/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-003-TP01 **Plant/Site Name:** Reckley Spring **County:** Allegany

Location: POE @ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 632307 **Phone No.:** 4104467432

001	0031	0010031	01	1/27/2021	700 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 7.1 **Free Cl:** 0.1 **Total Cl:** 0.2

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☐ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☐ Field Blank ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001920001
Received: 01/28/2021 EPA 537.1
Organics 0010031TP01

E21001920002
Received: 01/28/2021 EPA 537.1
Organics FB0010031TP01

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920001 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: 0010031TP01 Submitted By: Holt Date Analyzed: 01/29/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munees Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920002 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: FB0010031TP01 Submitted By: Holt Date Analyzed: 01/29/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Mureen Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
AF 1/28/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-0212-TP01 **Plant/Site Name:** Green Ridge Boys Camp **County:** Allegany

Location: POE WTP **Sample Source:** _____ (Street / Town or City)

Collector/ID: Holt 63237 **Phone No.:** 4104467432

County	System No.	PWSID	Plant No.	Date Collected	Time Collected
001	0212	0010212	01	1/27/2021	800 am/pm

Field Data: pH 7.1 **Free Cl:** 0.8 **Total Cl:** 1.0

Sample Type: ☑ Drinking water ☐ Private ☑ Community ☐ Non-Community ☐ Landfill ☐ Stream ☐ Soil/Sediment ☐ Source (water) ☐ Distribution (treated) ☑ Water Treatment Plant POE ☐ Oil ☐ Solid _____ ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~**524.2** (Volatiles)~~ 537.1 ☐ ~~VOCs~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank Yellow	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001920003
Received: 01/28/2021 EPA 537.1
Organics 0010212TP01

E21001920004
Received: 01/28/2021 EPA 537.1
Organics FB0010212TP01

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920003 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: 0010212TP01 Submitted By: Holt Date Analyzed: 01/30/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
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Laboratories Administration
Division of Environmental Sciences
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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920004 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: FB0010212TP01 Submitted By: Holt Date Analyzed: 01/29/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nunez Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 3.0 °C
AF 1/28/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-0018-TP03 **Plant/Site Name:** Gilmore WSP. Middletown **County:** Allegany

Location: POE@ WSP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

001	0018	0010018	03	1/27/2021	930 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.1 **Total Cl:** 1.4

Sample Type: ☐ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☑ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☑ ~~Field Blank~~ Yellow ☐ Trip Blank	☑ ~~1:1 HCL~~ TRIZMA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001920005
Received: 01/28/2021 EPA 537.1
Organics 0010018TP03

E21001920006
Received: 01/28/2021 EPA 537.1
Organics FB0010018TP03

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920005 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: 0010018TP03 Submitted By: Holt Date Analyzed: 01/30/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
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Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
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Robert Myers, Ph.D., Director

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920006 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: FB0010018TP03 Submitted By: Holt Date Analyzed: 01/30/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nureen Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
AF 1/28/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-0018-TP02 **Plant/Site Name:** Koontz WTP - Midland Lane **County:** Allegany

Location: POE@ WTP **Sample Source:** _____ (Street) _____ (Town or City)

Collector/ID: 17617 63235H **Phone No.:** 4104467432

0 0 1	0 0 18	0 0 1 0 0 1 8	0 2	1/27/2021	1000 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.8 **Free Cl:** 1.1 **Total Cl:** 1.4

Sample Type: ☑ Drinking water ☐ Landfill ☐ Source (water) ☐ Oil
☐ Private ☐ Stream ☐ Distribution (treated) ☐ Solid _____
☑ Community ☐ Soil/Sediment ☑ Water Treatment Plant POE ☐ Other _____
☐ Non-Community

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products
☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☑ ~~VOCs~~ PFAS ☐ THMs	☑ Field Blank ☐ Trip Blank Yellow	☐ ~~1:1 HCL~~ TR (RMS ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001920007
Received: 01/28/2021 EPA 537.1
Organics 0010018TP02

E21001920008
Received: 01/28/2021 EPA 537.1
Organics FB0010018TP02

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920007 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: 0010018TP02 Submitted By: Holt Date Analyzed: 01/30/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

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1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

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Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920008 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: FB0010018TP02 Submitted By: Holt Date Analyzed: 01/30/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munsen Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

Send Report to:

_____

_____

_____

State of Maryland
MDH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 1.0 °C
AF 1/28/21

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: 001-0018-TP01 **Plant/Site Name:** Charlestown WTP. Midland-Law **County:** Alleg

Location: POE WTP **Sample Source:** _____ (Street / Town or City)

Collector/ID: Holt 6323DH **Phone No.:** 4104467432

001	0018	0010018	01	1/27/2021	1030 am/pm
County	System No.	PWSID	Plant No.	Date Collected	Time Collected

Field Data: pH 6.9 **Free Cl:** 1.3 **Total Cl:** 1.6

Sample Type:
- ☑ Drinking water
- ☐ Private
- ☑ Community
- ☐ Non-Community
- ☐ Landfill
- ☐ Stream
- ☐ Soil/Sediment
- ☐ Source (water)
- ☐ Distribution (treated)
- ☑ Water Treatment Plant POE
- ☐ Oil
- ☐ Solid _____
- ☐ Other _____

Specify Program: ☑ SDWA ☐ NPDES ☐ RCRA ☐ CWA ☐ CERCLA ☐ Consumer Products ☐ Other _____

Test Requested	Field & Trip Blank	Preservative Used	Comment
☐ EPA Method **504.1** (EDB/DBCP)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **508** [Aroclors (SCAN only) & Toxaphene]	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **515.3** (Herbicides)	☐ Field Blank	☐ Sodium thiosulfate	
☐ EPA Method **525.2** (Pesticides)	☐ Field Blank	☐ HCL (6N) ☐ Sodium sulfite	
☐ EPA Method **531.2** (Carbamates)	☐ Field Blank	☐ Potassium Citrate monobasic ☐ Sodium thiosulfate	
☐ EPA Method **552.2** (Haloacetic acids)	☐ Field Blank	☐ Ammonium chloride	
☐ EPA Method **8270** (Semi-Volatiles) ☐ Pesticides ☐ Aroclors		☐ Sodium thiosulfate	
☑ EPA Method ~~524.2 (Volatiles)~~ 537.1 ☐ ~~VOCs~~ ☐ THMs PFAS	☑ Field Blank ☐ Trip Blank Yellow	☑ ~~1:1 HCL~~ TR 12 mA ☐ 1:1 HCL + Ascorbic acid ☐ Sodium thiosulfate	
☐ EPA Method **8260** (VOCs)			

E21001920009
Received: 01/28/2021 EPA 537.1
Organics 0010018TP01

E21001920010
Received: 01/28/2021 EPA 537.1
Organics FB0010018TP01

State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director

ACCREDITED
Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920009 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: 0010018TP01 Submitted By: Holt Date Analyzed: 01/30/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Nuneen Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**

State of Maryland
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ORGANICS ANALYTICAL LABORATORY
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Certificate # 3525.02

Certificate of Analysis

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Lab No.: E21001920010 Method: EPA 537.1 - PFAS

Date Received: 01/28/2021 Date Collected: 01/27/2021
Field ID: FB0010018TP01 Submitted By: Holt Date Analyzed: 01/30/2021

Contaminant	RL	MCL	Result
1-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0		ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.0		ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0		ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.0		ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.5		ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3.0		ND
Perfluorobutanesulfonic acid (PFBS)	1.0		ND
Perfluorodecanoic acid (PFDA)	1.0		ND
Perfluorododecanoic acid (PFDoA)	2.0		ND
Perfluoroheptanoic acid (PFHpA)	2.0		ND
Perfluorohexanesulfonic acid (PFHxS)	1.0		ND
Perfluorohexanoic acid (PFHxA)	1.0		ND
Perfluorononanoic acid (PFNA)	2.0		ND
Perfluorooctanesulfonic acid (PFOS)	2.0		ND
Perfluorooctanoic acid (PFOA)	1.0		ND
Perfluorotetradecanoic acid (PFTDA)	1.0		ND
Perfluorotridecanoic acid (PFTrDA)	2.0		ND
Perfluoroundecanoic acid (PFUnDA)	1.0		ND

Comments:

Approved by: Sadia Munawar Approval date: 02/05/2021

***All results are in parts per trillion ppt); ND = Less than the reporting level; na = not applicable; e = estimated value. Samples are tested as received.**